

Apple Module Identification

PN: 072-8124

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661-0668	8.6.4	Apple Personal LaserWriter LS/L Power Supply Unit (110/115 V)
661-0669	8.6.5	Apple Personal LaserWriter LS/L Serial Controller
661-0671	6.12.2	AppleCD SC Plus Drive Mechanism
661-0672	1.5.5	Macintosh ClassicII, Performa 200 Logic Board
661-0673	1.13.1	PowerBook 100 Motherboard
661-0674	1.13.3	PowerBook 100 Daughterboard
661-0675	5.12.1	PowerBook 100 FSTN Display
661-0676	9.3.1	PowerBook 100 Trackball Assembly
661-0677	4.1.11	Macintosh II Display Card 4•8

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661-0678	4.1.9	Macintosh II Display Card 8•24
661-0681	5.12.3	PowerBook 140 FSTN Display (Rev. B)
661-0684	1.16.9	PowerBook 180c Daughterboard
661-0685	5.12.13	PowerBook 180c Interconnect Board
661-0686	5.12.12	PowerBook 180c Active-Matrix Color Display
661-0687	8.7.18	Apple Personal LaserWriter 320 I/O Controller Board
661-0688	8.7.19	Apple Personal LaserWriter 320 RAM Expansion Card, 2 MB
661-0689	8.7.20	Apple Personal LaserWriter 320 RAM Expansion Card, 6 MB
661-0701	1.3.15	Macintosh SE and SE/30 ROMs
661-0702	1.3.15	Macintosh SE and SE/30 ROMs
661-0703	10.1.1	Apple TechStep Assembly
661-0705	5.3.5	AppleColor High-Resolution RGB Monitor Power Supply (Rev. B)
661-0706	5.12.2	PowerBook 140/145 FSTN Display (Rev. A)
661-0707	1.13.4	PowerBook 140 Daughterboard
661-0708	1.13.2	PowerBook 140/145/170 Motherboard
661-0709	1.13.5	PowerBook 170 Daughterboard
661-0710	9.3.2	PowerBook 140/145/160/170/180 Trackball Assembly
661-0711	5.12.10	PowerBook 170 Active-Matrix Display
661-0712	2.4.2	PowerBook 140/145/160/165/165c/170/ 180 Keyboard
661-0713	2.4.1	PowerBook 100 Keyboard
661-0714	1.14.2	PowerBook 100 PSRAM Expansion Card, 4 MB, 100 ns
661-0715	1.14.1	PowerBook 100/140/145/145B/160/170 PSRAM Expansion Card, 2 MB
661-0716	8.9.3	StyleWriter Main Logic Board (Rev. B)
661-0718	8.9.2	StyleWriter Printer Frame Assembly (Rev. B)
661-0719	1.3.7	Apple 1 MB SIMM, SOJ, 80 ns
661-0720	1.11.4	Macintosh LC III , Performa 450 Logic Board
661-0721	3.9.3	PowerBook 140/170 Battery Assembly
661-0722	1.3.12	Apple 256K SIMM, VRAM, 80 ns
661-0723	3.9.1	PowerBook 100 Battery Assembly
661-0724	5.12.4	PowerBook 140/145/170 Interconnect Board
661-0725	8.5.11	Personal LaserWriter NTR I/O Board
661-0727	1.7.12	Macintosh Quadra 950, Apple Workgroup Server 95 Logic Board

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661-0728	1.11.2	Macintosh LC II Logic Board, 2 MB
661-0729	1.11.3	Macintosh LC II Logic Board, 4 MB
661-0730	9.3.3	PowerBook 140/145/145B/160/165/165c/ 170/180/180c Trackball Assembly
661-0731	2.2.3	Apple Adjustable Keyboard
661-0732	1.5.7	Macintosh Color Classic Analog Board
661-0733	1.5.6	Macintosh Color Classic Logic Board
661-0734	8.5.12	Personal LaserWriter NTR SIMM, 1 MB, 80 ns, 72-Pin
661-0737	8.12.5	OneScanner for Windows
661-0738	8.12.1	Apple OneScanner Power Supply, PCB Assembly, 24-Bit
661-0739	8.12.4	Apple Color OneScanner Optical Assembly, 24-Bit
661-0740	8.12.3	Apple OneScanner Main Logic Board, 24-Bit
661-0744	1.16.1	PowerBook 160 Daughterboard
661-0745	5.12.5	PowerBook 145/160 FSTN Display (Rev. C)
661-0746	1.16.3	PowerBook 160/165/180 Motherboard
661-0747	1.16.6	PowerBook 180 Daughterboard
661-0748	5.12.11	PowerBook 180 Active-Matrix Display
661-0750	5.12.7	PowerBook 160/165/180 Interconnect Board
661-0751	1.16.4	PowerBook 165c Daughterboard
661-0752	5.12.9	PowerBook 165c FSTN Color Display
661-0754	3.9.4	PowerBook 140/145/170 Battery Assembly
661-0755	1.16.8	PowerBook 165c/180c Cousin Card
661-0758	3.8.2	Macintosh Power Supply, 112 Watt
661-0759	1.10.1	Macintosh IIvx Logic Board
661-0761	1.5.10	Performa 600 Logic Board
661-0762	9.1.2	Apple Adjustable Keypad
661-0763	9.1.3	Apple Desktop Bus Mouse II
661-0764	5.12.8	PowerBook 165c Interconnect Board
661-0765	1.16.5	PowerBook 165c/180c Motherboard
661-0772	6.6.2	AppleHard Disk 120, HDA, 120 MB, 2.5" SCSI
661-0773	6.4.9 SCSI	Apple Hard Disk 40, HDA, 40 MB, 3.5"
661-0774	6.5.5	Apple Hard Disk 80SC, HDA, 80 MB, 3.5" SCSI
661-0775	8.4.12	LaserWriter IIg I/O Board (SIMM-less)
661-0776	8.4.13	LaserWriter IIx I/O Board (SIMM-less)
661-0778	6.7.9	Apple Hard Disk 160, HDA, 160 MB, 2.5", SCSI
661-0779	6.8.1	Apple Hard Disk 200, HDA, 200 MB 2.5" SCSI

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661-0780	6.11.1	Apple Hard Disk 1 GB, HDA, 1 GB, 3.5" SCSI
661-0781	6.10.1	Apple Hard Disk 500, HDA, 500 MB, 3.5" SCSI
661-0782	3.9.2	PowerBook 160/165/165c/180/180c Battery Assembly
661-0785	8.9.4	StyleWriter II Whole Unit, Ink Jet, 120 V
661-0786	7.2.2	PowerBook 160/165/165c/180/180c Express Modem, 14.4 Baud
661-0787	3.7.2	Macintosh LC III, Performa 400 Series Power Supply
661-0788	1.15.1	PowerBook 145 Daughterboard
661-0789	3.9.5	PowerBook 140/145/145B/160/170/180 Battery Assembly, 2.8 Amp
661-0790	1.16.7	PowerBook 140/145/145B/165/165c/170/180/180c PSRAM Expansion Card, 4 MB, 85 ns
661-0791	1.3.20	Apple Expansion 128K SRAM SIMM, 17 ns
661-0792	1.3.21	Apple 256K SRAM SIMM, 17 ns
661-0793	1.3.22	Apple 48K Tag SRAM SIMM, 14 ns
661-0794	4.5.1	Apple Workgroup Server 95 PDS Card
661-0795	6.16.1	Apple DDS-DC 4mm, 2 GB SCSI Tape Drive
661-0796	6.5.7	Apple Hard Disk 80, HDA, 80 MB, 2.5" SCSI
661-0797	8.7.10	LaserWriter Pro Envelope Feeder Controller Board
661-0798	8.7.11	LaserWriter Pro 500 Sheet Feeder Controller Board
661-0799	8.7.8	LaserWriter Pro 600 I/O Board
661-0800	8.7.9	LaserWriter Pro 630 I/O Board
661-0801	8.7.5	LaserWriter Pro Laser/Scanner Assembly
661-0802	8.7.1	LaserWriter Pro Power Supply, 110/115 V
661-0803	8.7.1	LaserWriter Pro Power Supply, 220/240 V
661-0804	8.7.2	LaserWriter Pro High-Voltage Power Supply
661-0805	8.7.4	LaserWriter Pro Fuser Assembly, 110/115 V
661-0806	8.7.4	LaserWriter Pro Fuser Assembly, 220/240 V
661-0807	8.7.3	LaserWriter Pro DC Controller Board
661-0808	8.7.6	LaserWriter Pro SIMM 4 MB, 80 ns, 72-Pin
661-0809	8.7.7	LaserWriter Pro SIMM, 8 MB, 80 ns 72-Pin

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661-0810	8.12.2	Apple Color OneScanner Power Supply, PCB Assembly, 240 V, 24-Bit (International Only)
661-0811	1.3.19	Apple 4 MB x 9 SIMM, 80 ns, Parity
661-0812	1.11.5	Macintosh LC 520 Logic Board
661-0813	1.11.6	Macintosh LC 520 Analog Board
661-0820	8.7.21	LaserWriter Select 360 I/O Controller Board
661-0821	8.7.22	LaserWriter Select 360 DC Controller Board
661-0822	8.7.23	LaserWriter Select 360 High- Voltage Power Supply
661-0825	8.7.24	LaserWriter Select 360 Fuser Assembly, 115 V
661-0826	8.7.25	LaserWriter Select 360 Fuser Assembly, 220 V
661-0827	8.7.26	LaserWriter Select 360 Laser Optic Assembly
661-0828	8.7.27	LaserWriter Select 360 Scanner Motor
661-0830	8.9.5	Apple Portable StyleWriter Whole Unit
661-0831	8.9.6	Apple Portable StyleWriter Automatic Sheet Feeder
661-0832	6.11.2	Apple Hard Disk 2 GB HDA, 2 GB, 3.5" SCSI
661-0833	8.7.29	LaserWriter Pro 810 DC Controller Board
661-0836	8.7.30	LaserWriter Pro 810 Power Supply, 115 V
661-0837	8.7.31	LaserWriter Pro 810 Power Supply, 220 V
661-0842	8.7.32	LaserWriter Pro 810 I/O Controller Board
661-0846	8.7.33	LaserWriter Pro 810 4 MB Memory Card
661-0847	8.7.34	LaserWriter Pro 810 8 MB memory Card
661-0849	8.7.35	LaserWriter Pro 810 High Resolution Card
661-0850	8.7.36	LaserWriter Pro 810 Communications Card
661-0851	8.7.37	LaserWriter Pro 810 Fax Card
661-0852	8.7.38	LaserWriter Pro 810 Ethernet Card
661-0853	8.7.39	LaserWriter Pro 810 Ethernet Card, 10 Base T
661-0854	8.7.40	LaserWriter Pro 810 Ethernet Card, 10 Base 2
661-0857	8.7.41	LaserWriter Pro 810 Fuser, 110 V
661-0858	8.7.42	LaserWriter Pro 810 Fuser, 220 V
661-0860	8.7.43	LaserWriter Pro 810 High-Voltage Power Supply
661-0865	8.7.44	LaserWriter Pro 810 Laser/Scanner Unit
661-0866	8.9.7	Apple Portable StyleWriter Battery, NiCad
661-0867	1.11.7	Macintosh LC 575 Logic Board, 33 MHz
661-0868	8.7.28	LaserWriter Select 360 Fax Card
661-0869	4.2.9	Macintosh II Apple Ethernet NB Twisted Pair Card

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661-0870	5.14.6	Apple Color Plus 14-Inch Display
661-0872	1.18.2	Macintosh TV Analog Board
661-0876	8.9.8	Apple Color StyleWriter Pro Controller Board
661-0877	8.9.9	Apple Color StyleWriter Pro Power Supply, 110 V
661-0878	8.9.9	Apple Color StyleWriter Pro Power Supply, 220/240V
661-0881	5.16.1	Apple Multiple Scan 17 Display Main Deflection Board
661-0882	5.16.2	Apple Multiple Scan 17 Display Main Deflection Board
661-0887	4.3.5	Macintosh LC 575 Express Modem, 14.4 Baud, Comm Slot
661-0888	4.3.6	Macintosh LC 575 Ethernet Card, 10 Base-T Comm Slot
661-0889	4.3.7	Macintosh LC 575 Ethernet Card, AAUI, Comm Slot
661-0890	6.8.5	Apple Hard Disk 250, HDA, 250 MB, 3.5" SCSI, Internal
661-0891	6.10.2	Apple Hard Disk 500, HDA, 500 MB, 3.5" SCSI, Internal
661-0894	8.4.11	LaserWriter II Engine (Whole Unit)
661-0895	6.8.4	Apple Hard Disk 240, HDA, 240 MB, 2.5" SCSI
661-0896	6.8.7	Apple Hard Disk 320, HDA, 320 MB, 2.5" SCSI
661-0897	1.19.2	Power Macintosh 7100/66 Logic Board
661-1010	8.9.4	StyleWriter II Whole Unit, Ink Jet, 220 V
661-1016	1.16.2	PowerBook 165 Daughterboard
661-1017	4.7.1	Macintosh Quadra 610 DOS Compatibility Card
661-1022	1.19.1	Power Macintosh 6100/60 Logic Board
661-1023	4.8.4	Power Macintosh AV Card
661-1024	1.19.4	Power Macintosh 256K, SIMM, Cache
661-1026	1.19.3	Power Macintosh 8100/80 Logic Board
661-1027	4.8.3	Power Macintosh 8100 Video Card, 4 MB
661-1103	1.14.3	PowerBook 100 PSRAM Expansion Card, 4 MB, 100 ns
661-1602	4.3.1	Macintosh IIci Cache Card
661-1603	5.5.5	Portrait Display "Series B" Dynamic Focus Board, VDE-B
661-1605	8.4.4	LaserWriter II NTX I/O Board (Rev. 3.0)
661-1606	8.1.13	ImageWriter II L Power Supply Board (220/240 V)
661-1610	1.12.3	Macintosh Portable Logic Board, PSRAM
661-1611	9.2.2	Macintosh Portable Lightweight Numeric Keypad

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661-1612	2.3.2	Macintosh Portable Lightweight Keyboard
661-1613	1.12.4	Macintosh Portable 3 MB PSRAM Expansion Card
661-1614	1.12.5	Macintosh Portable 1 MB PSRAM Expansion Card
661-1615	1.9.1	Macintosh IIsi Logic Board
661-1616	3.6.1	Macintosh IIsi Power Supply
661-1617	4.2.5	Macintosh II Token Ring 4/16 NB Card
661-1618	5.8.2	Macintosh 12-Inch RGB Display CRT Video Board
661-1619	4.3.2	Macintosh IIfx Cache Card, Revised
661-1621	7.2.1	PowerBook 100/140/145/160/165c/170/180c Domestic Modem, 2400 Baud, Internal
661-1622	6.2.2	Hard Disk 20 HDA, 20 MB, 2.5", 17 mm, HDI-30
661-1623	6.1.3	Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm
661-1629	6.4.2	Apple Hard Disk 40 HDA, 40 MB, 5.25" SCSI
661-1630	6.4.5	Apple Hard Disk 40SC, HDA, 40 MB, 2.5" SCSI
661-1632	6.4.7	Apple Hard Disk 40, HDA, 40 MB, 2.5" SCSI
661-1634	5.9.2	Macintosh 16-Inch Color Display Main Board (Rev. A)
661-1635	5.9.1	Macintosh 16-Inch Color Display CRT Video Board
661-1636	6.9.1	Hard Disk 400, 400 MB, Internal SCSI HDA
661-1637	6.8.2	Hard Disk 230, 230 MB, 3.5" SCSI HDA
661-1638	6.7.2	Apple Hard Disk 160, HDA with A/UX 2.0.1 SCSI
661-1639	6.7.4	Apple Hard Disk 160SC, HDA, 160 MB, 5.25" SCSI with A/UX 2.0.1
661-1640	6.7.2	Apple Hard Disk 160, HDA, 160 MB, 5.25" SCSI
661-1641	6.7.4	Apple Hard Disk 160SC, HDA, 160 MB, 3.5" SCSI
661-1642	4.1.12	Macintosh II Display Card 8•24 GC
661-1643	6.5.6	Apple Hard Disk 80, HDA, 80 MB, 2.5" SCSI
661-1644	6.4.6	Apple Hard Disk 40SC, HDA, 40 MB, 2.5" SCSI, PowerBook 100
661-1645	6.13.1	AppleCD 150, Drive
661-1646	6.14.1	AppleCD 300, Drive Mechanism

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661-1647	6.7.5	Apple Hard Disk 160, HDA, 160 MB, 3.5" SCSI
661-1648	6.13.3	AppleCD 150 Power Supply
661-1649	6.7.6	Apple Hard Disk 160, HDA, 160 MB, 3.5" SCSI
661-1650	5.10.1	Macintosh Color Display Main Deflection Board
661-1651	6.1.4	Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm
661-1652	2.4.3	PowerBook Duo 210/230/250/270c Keyboard, Domestic
661-1653	1.17.3	PowerBook Duo 210 Logic Board, 25 MHz
661-1654	9.3.4	PowerBook Duo 210/230/250/270c Trackball Assembly
661-1655	5.13.1	PowerBook Duo 210/230 FSTN Display
661-1656	3.10.2	Macintosh PowerBook Duo 210/230/250/270c Battery Assembly with Door
661-1657	1.17.1	Macintosh Duo Dock Logic Board
661-1658	4.4.2	PowerBook Duo 210/230 8 MB DRAM Card
661-1659	4.4.1	PowerBook Duo 210/230 4 MB DRAM Card
661-1660	3.10.1	Macintosh Duo Dock Power Supply
661-1661	1.17.4	Macintosh Duo Dock Release Mechanism
661-1662	7.3.1	Macintosh Duo 210/230 International Modem, 14.4 Baud
661-1663	1.17.5	PowerBook Duo 210/230 Floppy Adapter
661-1664	1.17.15	Macintosh Expansion Bar, Mini Dock Logic Board with Flex Cable
661-1665	7.3.1	PowerBook Duo 210/230 Domestic Modem, 14.4 Baud
661-1671	5.9.3	Macintosh 16-Inch Color Display Main Board (Rev. B)
661-1672	1.17.4	PowerBook Duo 230 Logic Board, 33 MHz
661-1673	5.13.1	PowerBook Duo 210/230 FSTN Display
661-1674	8.13.1	Apple Color Printer SCSI Card Assembly
661-1675	1.7.4	Macintosh Centris 650 Logic Board, 4 MB
661-1676	1.7.9	Macintosh Quadra 800 Logic Board, 8 MB, FPU (with Ethernet)
661-1677	1.7.3	Macintosh Centris 650 Logic Board, 4 MB, FPU (with Ethernet)
661-1678	1.7.5	Macintosh Centris 650 Logic Board, 8 MB, FPU (with Ethernet)
661-1679	1.7.4	Macintosh Centris 650 Logic Board, 4 MB, FPU

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661-1681	1.7.1	Macintosh Centris 610 Logic Board
661-1682	1.7.2	Macintosh Centris 610 Logic Board (with Ethernet)
661-1685	8.13.2	Apple Color Printer Bubble-Jet Head Unit
661-1687	3.8.3	Macintosh Power Supply, 200 Watt
661-1688	3.8.1	Macintosh Power Supply, 86 Watt
661-1689	10.2.1	AppleDesign Powered Speakers Main Speaker
661-1697	10.3.1	Power CD Player, NTSC, Blue
661-1699	5.10.2	Apple Audio Vision 14 Display Main Deflection Board
661-1700	1.7.10	Macintosh Quadra 840AV Logic Board
661-1701	1.3.17	Apple 4 MB SIMM, 60 ns, 72-pin
661-1702	1.3.18	Apple 8 MB SIMM, 60 ns, 72-pin
661-1703	7.5.1	GeoPort Telecom Adapter
661-1704	1.7.6	Macintosh Centris 660AV Logic Board
661-1705	6.13.2	AppleCD 150 Drive Mechanism
661-1706	6.14.3	AppleCD 300 Power Supply
661-1707	1.17.2	Macintosh Duo Dock II Logic Board
661-1715	1.14.3	PowerBook 145B Daughterboard
661-1717	1.17.5	PowerBook Duo 270c Logic Board
661-1737	10.2.2	AppleDesign Powered Speakers Main Speaker with Subwoofer Jack
661-1716	10.2.3	AppleDesign Powered Speakers Main Speakers
661-1717	1.17.6	Macintosh Duo 270c Logic Board
661-1719	1.7.7	Macintosh 660AV NuBus Adapter
661-1722	2.5.1	Macintosh TV Keyboard
661-1723	9.4.1	Macintosh TV Desktop Bus Mouse II
661-1724	1.18.1	Macintosh TV Logic Board
661-1726	10.3.1	Power CD Player, NTSC, Gray
661-1727	10.3.1	Power CD Player, PAL, Gray
661-1728	10.3.1	Power CD Player, PAL, Blue
661-1729	10.3.2	Power CD Base, Battery Pack/SCSI, Blue
661-1730	10.3.2	Power CD Base, Battery Pack/SCSI, Gray
661-1731	5.15.1	Macintosh TV Tuner PCB
661-1732	1.5.11	Macintosh Quadra 605, LC 475, Performa 475, 476 Logic Board
661-1735	3.10.3	PowerBook Duo 210/230/250/270c NiMH Battery Assembly with Door
661-1736	1.5.9	Performa 460/466/467 Logic Board
661-1741	4.6.1	CD Multimedia Kit for PCs Pro Audio Spectrum 16/SCSI Card
661-1748	4.8.2	Power Macintosh 7100 Video Card, 2 MB
661-1830	1.5.8	Macintosh Color Classic II, Performa 275/ 550 Logic Board
661-2000	8.8.7	LaserWriter Select 300 I/O Board

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661-2001	8.8.8	LaserWriter Select 310 I/O Board
661-2002	8.8.1	LaserWriter Select DC Controller Board
661-2003	8.8.2	LaserWriter Select Laser Optic Board
661-2004	8.8.3	LaserWriter Select Scanner Motor
661-2005	8.8.4	LaserWriter Select High-Voltage Power Supply
661-2006	8.8.5	LaserWriter Select Power Supply, 110/115 V
661-2007	8.8.5	LaserWriter Select Power Supply, 220/240 V
661-2008	8.8.6	LaserWriter Select Fuser Assembly, 110/115 V
661-2009	8.8.6	LaserWriter Select Fuser Assembly, 220/240 V
661-8745	5.12.6	PowerBook 160 Kit, FSTN Display (Rev. C)
661-76214	3.1.2	Macintosh Power Sweep Board (220 V)

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CPU PCBs

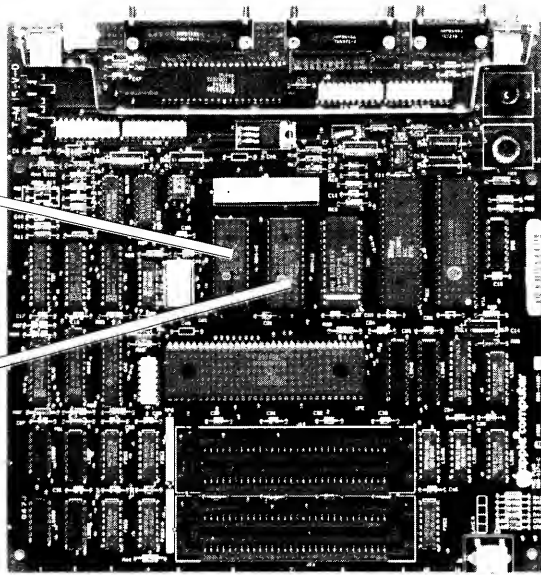
Macintosh Plus Logic Board

Apple P/N 661-0321

(When you return P/N 661-0321, Apple ships you P/N 661-0525.)

ROM HI
342-0341

ROM HI
342-0342



NOTE: Return the Macintosh Plus logic board with BOTH high and low boot ROMs installed. You must install the boot ROMs in the CORRECT VERSION COMBINATIONS. The only acceptable combinations are:

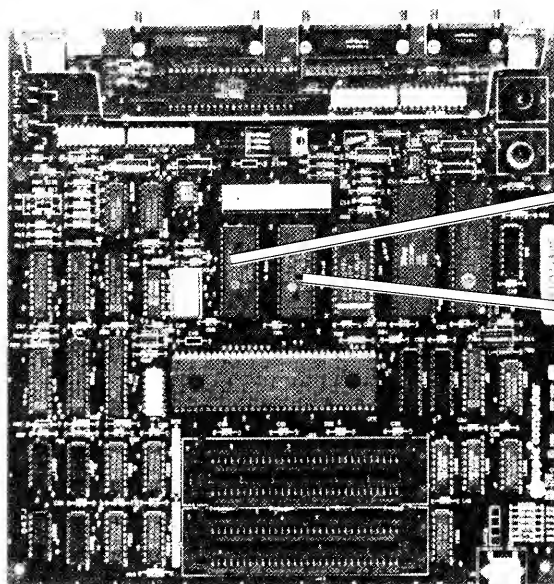
High-Boot ROM:	342-0341-A	342-0341-B	342-0341-C
Low-Boot ROM:	342-0342-A	342-0342-A	342-0342-B

If either or both boot ROMs are missing, or if you install the ROMs with incorrect version combinations, the logic board is not acceptable.

Return the Macintosh Plus logic board without RAM SIMMs.

Macintosh Plus Logic Board

Apple P/N 661-0525



ROM HI
342-0341

ROM HI
342-0342

NOTE: Return the Macintosh Plus logic board with BOTH high and low boot ROMs installed. You must install the boot ROMs in the CORRECT VERSION COMBINATIONS. The only acceptable combinations are:

High-Boot ROM:	342-0341-A	342-0341-B	342-0341-C
Low-Boot ROM:	342-0342-A	342-0342-A	342-0342-B

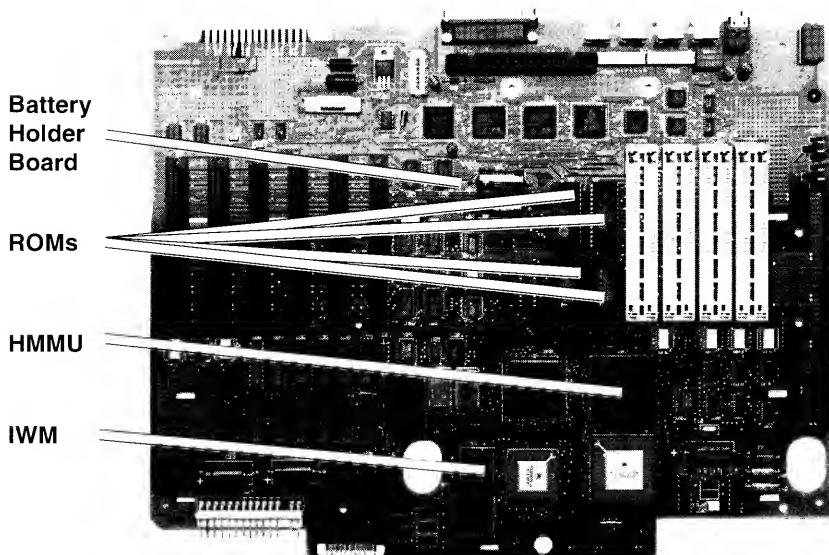
If either or both boot ROMs are missing, or if you install the ROMs with incorrect version combinations, the logic board is not acceptable.

Return the Macintosh Plus logic board without RAM SIMMs.

Macintosh II Logic Board

Apple P/N 661-0374

(When you return P/N 661-0374, Apple ships you P/N 661-0528.)



NOTE: Return the logic board with the four ROMs, the IWM chip, and the HMMU chip. Remove the on-off switch and the EMI shield before returning the board to Apple.

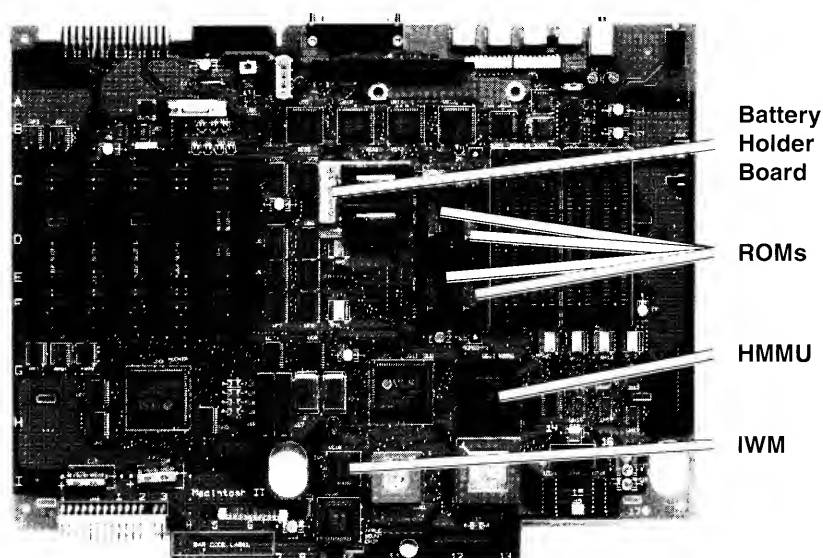
Return the Macintosh II logic board without RAM SIMMs.

For upgrades: If the Macintosh II logic board contains a PMMU upgrade (P/N 630-8221) or an Apple SuperDrive upgrade (P/N 344S0062) for the SWIM chip and the four ROM chips (P/Ns 342-0639, 342-0640, 342-0641, and 342-0642), transfer the upgraded components onto the customer's new logic board. Install the displaced components on the failed logic board.

You can return the logic board with a battery holder board (as shown above) or with soldered batteries.

Macintosh II Logic Board

Apple P/N 661-0528



NOTE: Return the logic board with the four ROMs, the IWM chip, and the HMMU chip. Remove the on-off switch and the EMI shield before returning the board to Apple.

Return the Macintosh II logic board without RAM SIMMs installed.

For upgrades: If the Macintosh II logic board contains a PMMU upgrade (P/N 630-8221) or an Apple SuperDrive upgrade (P/N 344S0062) for the SWIM chip and the four ROM chips (P/Ns 342-0639, 342-0640, 342-0641, and 342-0642), transfer the upgraded components onto the customer's new logic board. Install the displaced components on the failed logic board.

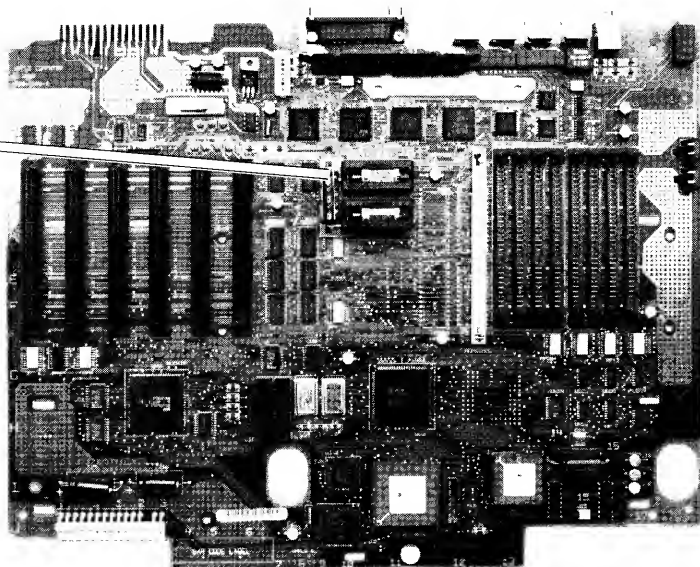
You can return the logic board with a battery holder board (as shown above) or with soldered batteries.

Macintosh IIx Logic Board

Apple P/N 661-0463

(When you return P/N 661-0463, Apple ships you P/N 661-0529.)

Battery
Holder
Board



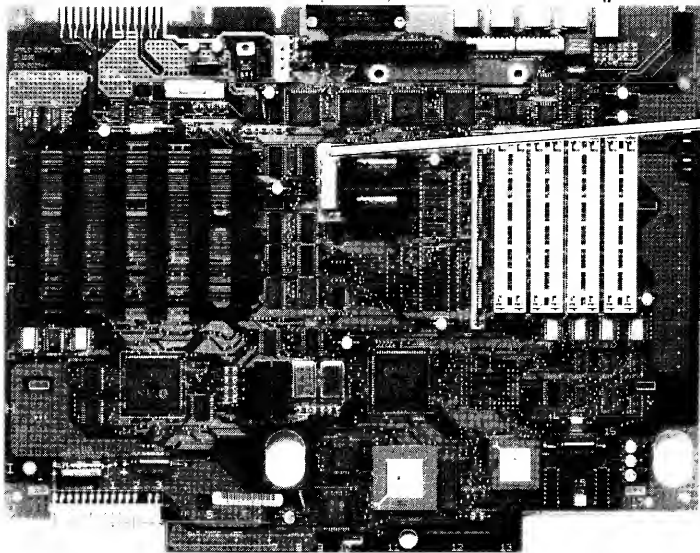
NOTE: Remove the on-off switch and EMI shield before returning the board to Apple.

Return the Macintosh IIx logic board without RAM SIMMs.

You can return the logic board with a battery holder board (as shown above) or with soldered batteries.

Macintosh IIfx Logic Board

Apple P/N 661-0529



Battery
Holder
Board

NOTE: Remove the on-off switch and EMI shield before returning the board to Apple.

Return the Macintosh IIfx logic board without RAM SIMMs.

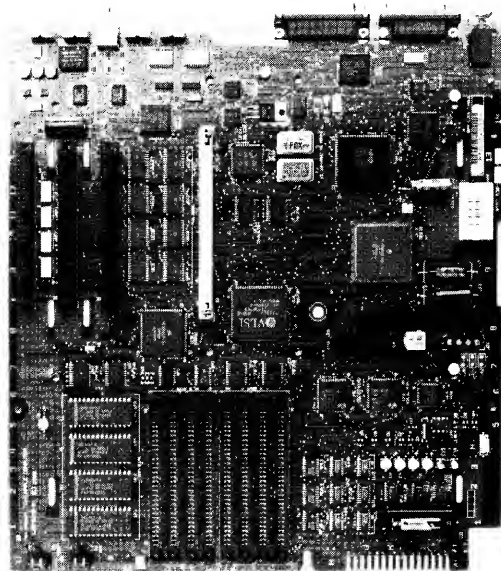
Return the Macintosh IIfx logic board with the ROM SIMM.

You can return the logic board with a battery holder board (as shown above) or with soldered batteries.

Macintosh Ilcx Logic Board

Apple P/N 661-0459

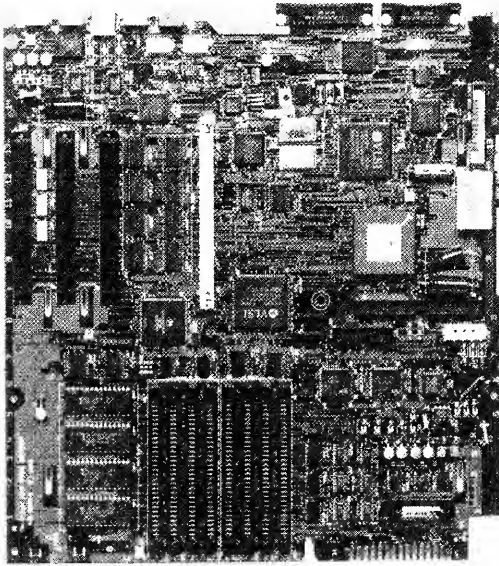
(When you return P/N 661-0459, Apple ships you P/N 661-0537.)



NOTE: Return the Macintosh Ilcx logic board without RAM SIMMs.

Macintosh Ilcx Logic Board

Apple P/N 661-0537

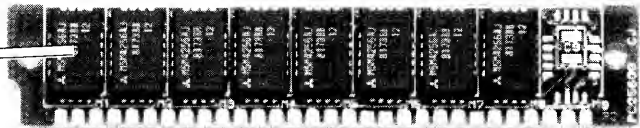


NOTE: Return the Macintosh Ilcx logic board without RAM SIMMs.

Apple
256K SIMM, 120 ns

Apple P/N 661-0402

See Note

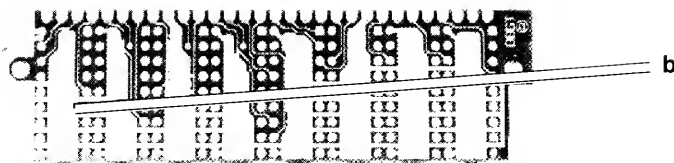


NOTE: The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -10 indicates 100 ns, -12 indicates 120 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Although 150 ns RAM SIMMs are acceptable for return, Apple ships 120 ns (or faster) RAM SIMM exchange modules.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
256K SIMM, DIP, 120 ns

Apple P/N 661-0494



NOTE:

- a) These DIP (Dual In-line Package) SIMMs have eight ICs soldered through the PCB.
- b) Please note that this SIMM is for the Macintosh Plus and Macintosh SE only. The back side of this SIMM is marked "For use only in Mac Plus SIMM positions (1, 2, 3, 4) and Mac SE SIMM positions (3, 4)."

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
256K SIMM, SOJ, 80 ns

Apple P/N 661-0519

See Note

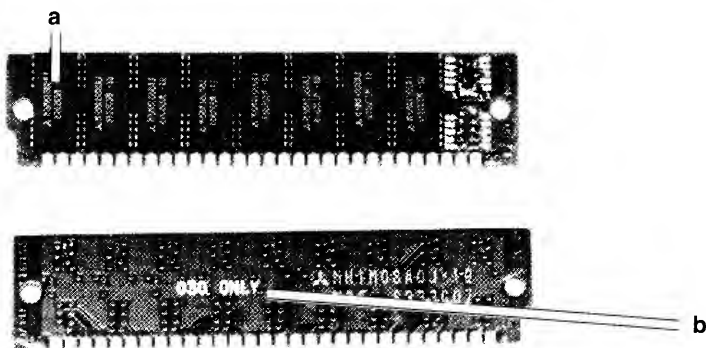


NOTE: The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 256K variety for return.

For additional SIMM information, refer to the SIMMs manual in Service Source.

Apple
1 MB SIMM, 120 ns

Apple P/N 661-0403



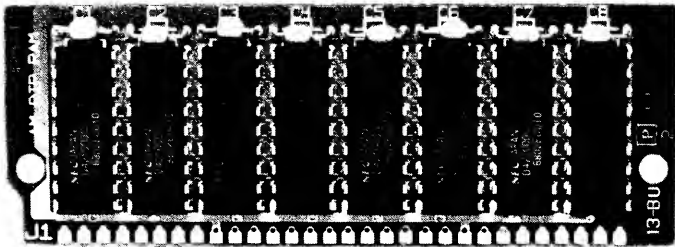
NOTE:

- a) The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -10 indicates 100 ns, -12 indicates 120 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 120 ns or faster RAM SIMMs of this 1 MB variety for return.
- b) Please note that this SIMM is for Macintosh units with the 68030 central processing unit only. The back of this SIMM is marked "030 only."

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
1 MB SIMM, DIP, 120 ns

Apple P/N 661-0410



NOTE:

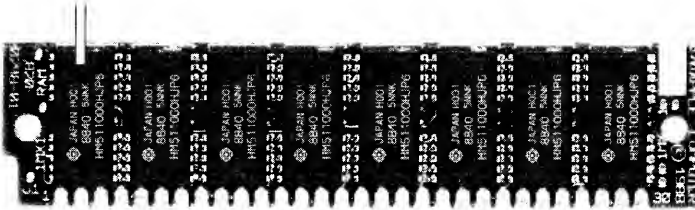
- a) These DIP (Dual In-line Package) SIMMs have eight ICs soldered through the PCB.
- b) The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -10 indicates 100 ns, -12 indicates 120 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 120 ns or faster RAM SIMMs of this 1 MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple 1 MB SIMM, SOJ, 80 ns

Apple P/N 661-0520

See Note



NOTE: The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 1 MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
1 MB SIMM, SOJ, 80 ns

Apple P/N 661-0719



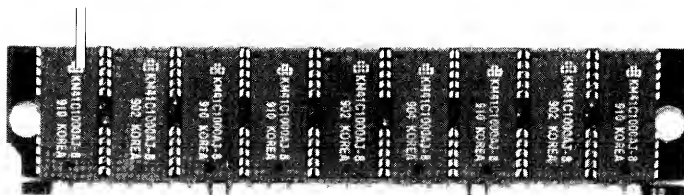
NOTE: The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 1 MB variety for return.

For additional SIMM information, refer to the SIMM manual in *Service Source*.

Apple 1 MB SIMM, SOJ, 80 ns, Parity

Apple P/N 661-0546

See Note

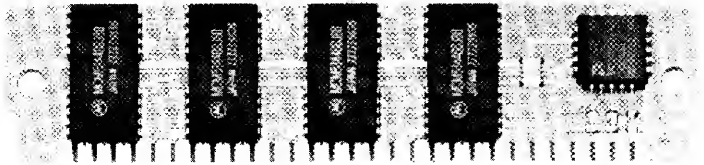


NOTE: The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 1 MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
2 MB SIMM, SOJ, 80 ns

Apple P/N 661-0643

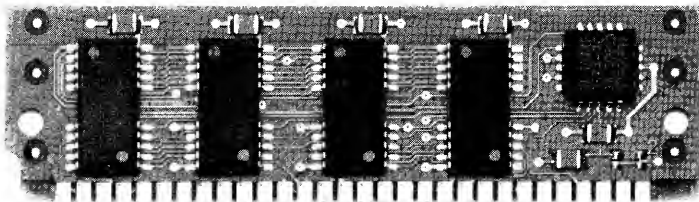


NOTE: The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 2 MB variety for return.

For additional SIMM information, refer to the Memory manual in *Service Source*.

Apple
512K SIMM, SOJ, 80 ns

Apple P/N 661-0646



NOTE: The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 512K variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
256K SIMM, VRAM, 100 ns

Apple P/N 661-0609

**Please refer to the note below when
identifying this module**

NOTE: Return the VRAM SIMM as:

661-0609 if it is to be installed on a Macintosh Display 4•8 card.

661-0722 if it is to be installed on a Macintosh Quadra or a
Macintosh LC family logic board.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
256K SIMM, VRAM, 80 ns

Apple P/N 661-0722

**Please refer to the note below when
identifying this module**

NOTE: Return the VRAM SIMM as:

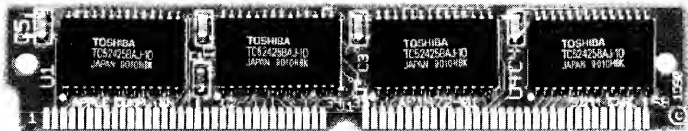
661-0609 if it is to be installed on a Macintosh Display 4•8 card.

661-0722 if it is to be installed on a Macintosh Quadra or a
Macintosh LC family logic board.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
512K SIMM, VRAM

Apple P/N 661-0649



NOTE: For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Macintosh/Macintosh Plus ROMs

Apple P/N 661-0220

Apple P/N 661-0221

Apple P/N 661-0632

Apple P/N 661-0633



NOTE:

- a) ROM, High, Macintosh with 400K floppy drive, (P/N 661-0220)
- b) ROM, Low, Macintosh with 400K floppy drive, (P/N 661-0221)
- c) ROM, High, Macintosh with 800K floppy drive, (P/N 661-0632)
- d) ROM, Low, Macintosh with 800K floppy drive, (P/N 661-0633)

Apple P/N on ROMs must be 34x-0220 through 34x-0221
(where x = 1 or 2) for a Macintosh with a 400K floppy drive.

Apple P/N on ROMs must be 34x-0341 through 34x-0342
(where x = 1 or 2) for a Macintosh with an 800K floppy drive.

Macintosh SE and SE/30 ROMs

Apple P/N 661-0701
Apple P/N 661-0702



NOTE:

- a) ROM, High, Macintosh SE Apple SuperDrive Upgrade, (P/N 661-0701)
- b) ROM, High, Macintosh SE Apple SuperDrive Upgrade, (P/N 661-0702)

Apple P/N on ROMs must be 34x-0701 through 34x-0702 (where x = 1 or 2).

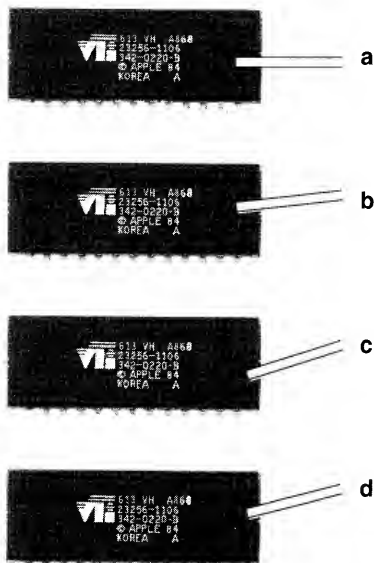
Macintosh II ROMs

Apple P/N 661-0639

Apple P/N 661-0640

Apple P/N 661-0641

Apple P/N 661-0642



NOTE:

- a) ROM, High, Mac II Apple SuperDrive Upgrade, (P/N 661-0639)
- b) ROM, Med High, Mac II Apple SuperDrive Upgrade, (P/N 661-0640)
- c) ROM, Med Low, Mac II Apple SuperDrive Upgrade, (P/N 661-0641)
- d) ROM, Low, Mac II Apple SuperDrive Upgrade, (P/N 661-0642)

Apple P/N on ROMs must be 34x-0639 through 34x-0642 (where x = 1 or 2).

Apple
4 MB SIMM, 60ns, 72-Pin

Apple P/N 661-1701

Front



Back



NOTE: This board has ICs on one side.

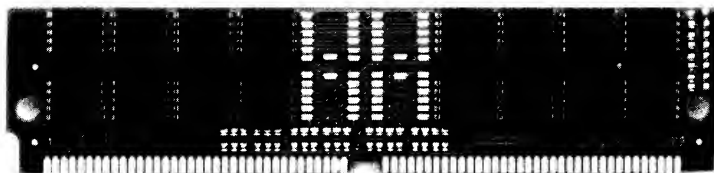
The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns, where as -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back side of the SIMM board. Apple accepts only 60 ns or faster RAM SIMMs of this 4-MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

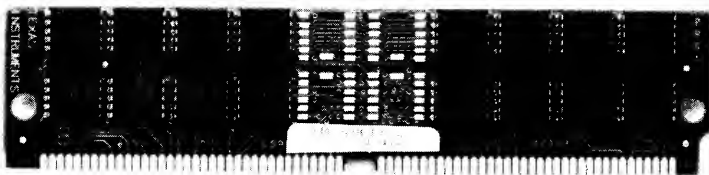
Apple
8 MB SIMM, 60 ns, 72-Pin

Apple P/N 661-1702

Front



Back



NOTE: This board has ICs on both sides.

The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns where as -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back side of the SIMM board. Apple accepts only 60 ns or faster RAM SIMMs of this 8-MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
4 MB x 9 SIMM, 80 ns, Parity

Apple P/N 661-0811

Front



Back



NOTE: Parity DRAM SIMMs have nine RAM ICs.

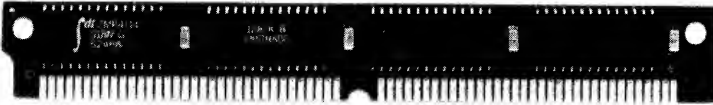
The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns; -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back side of the SIMM. Apple accepts only 80 ns or faster parity DRAM SIMMs of this 4 MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
128K SRAM SIMM, 17 ns

Apple P/N 661-0791

Front



Back



NOTE: This board has RAM ICs on one side only.

This SIMM is labeled "128KB Upgrade" on one of the ICs.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

Apple
256K SRAM SIMM, 17 ns

Apple P/N 661-0792

Front



Back



NOTE: This board has ICs on both sides.

This SIMM is labeled "256KB Upgrade" on one of the ICs.

For additional SIMM information, refer to the Memory manual in *Service Source*.

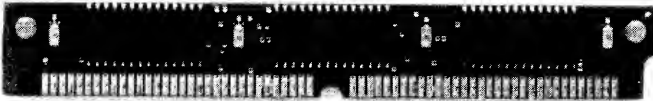
Apple
48K Tag SRAM SIMM, 14 ns

Apple P/N 661-0793

Front



Back



NOTE: This board has ICs on both sides.

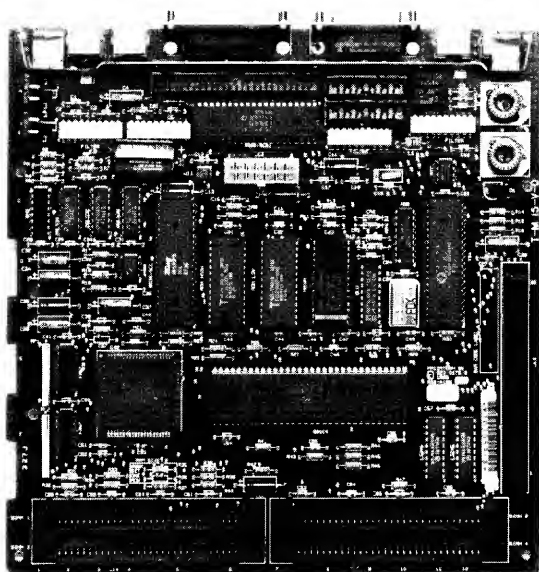
This SIMM is labeled "Tag Upgrade" on one of the ICs.

For additional SIMM information, refer to the Memory manual in *Service Source*.

Macintosh SE Logic Board

Apple P/N 661-0369

(When you return P/N 661-0369, Apple ships you P/N 661-0526.)



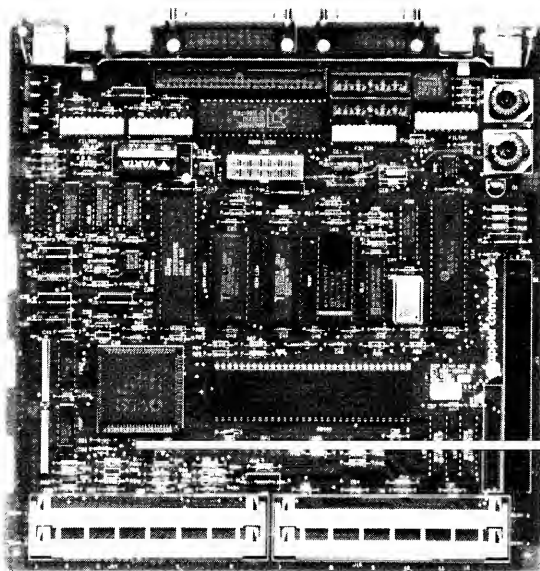
NOTE: If the logic board contains a SWIM chip (P/N 344-0062) and new ROMs (P/Ns 342-0701 and 342-0702) for the Apple SuperDrive upgrade, remove these components from the failed logic board and install them on the replacement logic board.

Remove the RAM SIMMs before you return the Macintosh SE logic board to Apple.

Macintosh SE Revised Logic Board

Apple P/N 661-0490

(When you ship P/N 661-0490, Apple ships you P/N 661-0526.)



See Note

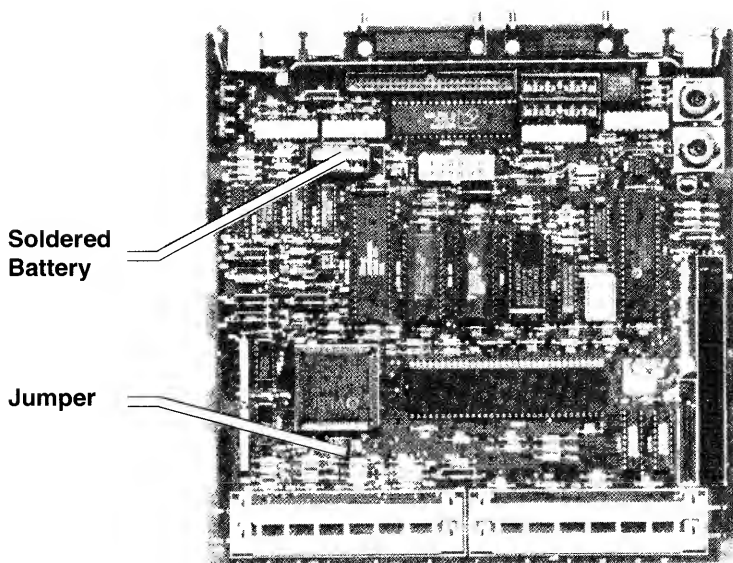
NOTE: You can identify the revised logic board by the presence of a jumper block. You can use the jumper block to configure RAM to 1, 2, 2.5, and 4 megabytes. The jumper is located in the area noted.

If the logic board contains the SWIM chip (P/N 344-0062) and new ROMs (P/Ns 342-0701 and 342-0702) for the Apple SuperDrive upgrade, remove these components from the failed logic board and install them on the replacement logic board.

Return the Macintosh SE logic board without RAM SIMMs.

Macintosh SE 800K Logic Board

Apple P/N 661-0526



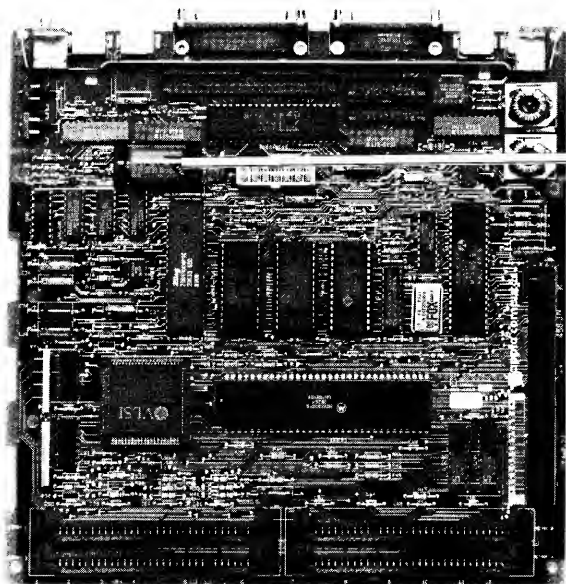
NOTE: You can identify the 800K logic board by the presence of a jumper block and a soldered-on battery. The jumper block, used to configure RAM to 1, 2, 2.5, and 4 megabytes, is located in this area.

If the logic board contains the SWIM chip (P/N 344-0062) and new ROMs (P/Ns 342-0701 and 342-0702) for the Apple SuperDrive upgrade, remove these components from the failed logic board and install them on the replacement logic board.

Return the Macintosh SE logic board without RAM SIMMs.

Macintosh SE Apple SuperDrive Logic Board

Apple P/N 661-0536



Battery Holder

NOTE: You can identify the Apple SuperDrive logic board by the presence of a battery holder.

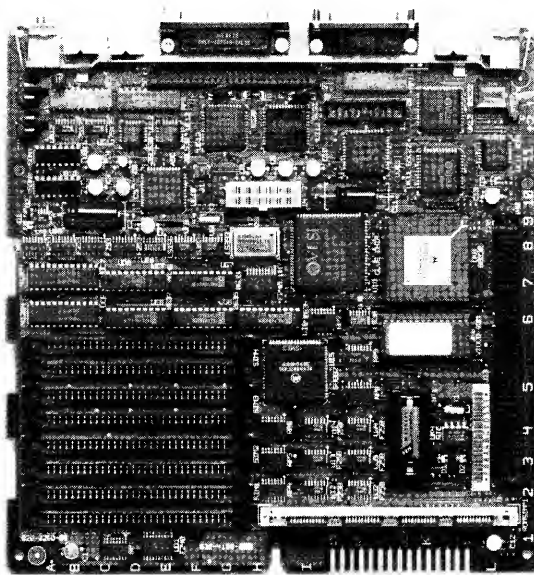
Do not use this logic board to replace a failed SE logic board or an SE logic board that has the Apple SuperDrive upgrade. Use this logic board only to replace a failed original Apple SuperDrive logic board.

Return the logic board without RAM SIMMs.

Macintosh SE/30 Logic Board

Apple P/N 661-0510

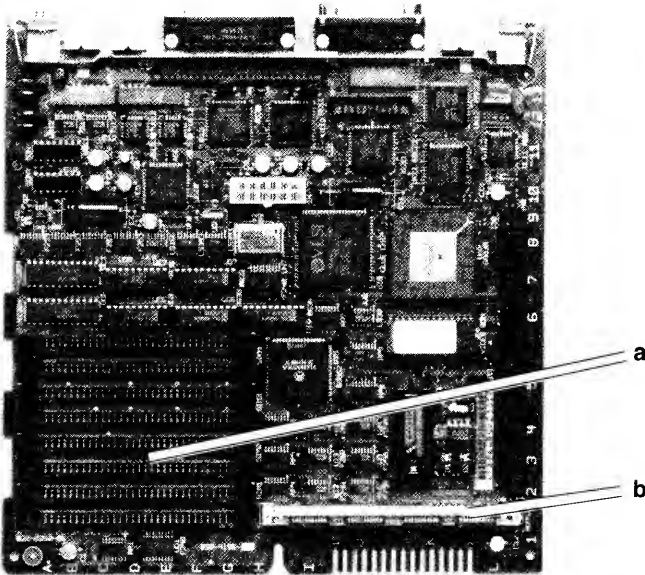
(When you return P/N 661-0510, Apple ships you P/N 661-0527.)



NOTE: Return the Macintosh SE/30 logic board without RAM SIMMs.

Macintosh SE/30 Logic Board

Apple P/N 661-0527

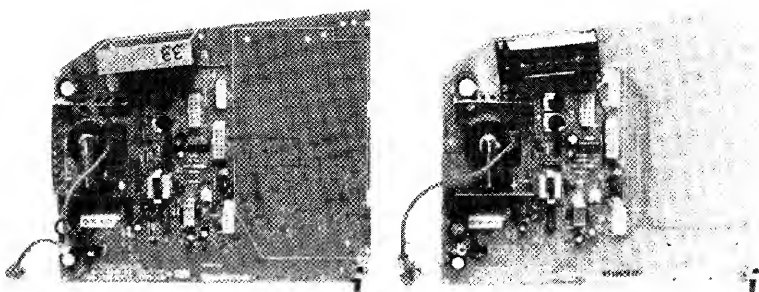


NOTE:

- a) Return the Macintosh SE/30 logic board **without** RAM SIMMs.
- b) Return the Macintosh SE/30 logic board **with** the ROM SIMM.

Macintosh SE Analog Board

Apple P/N 661-0371



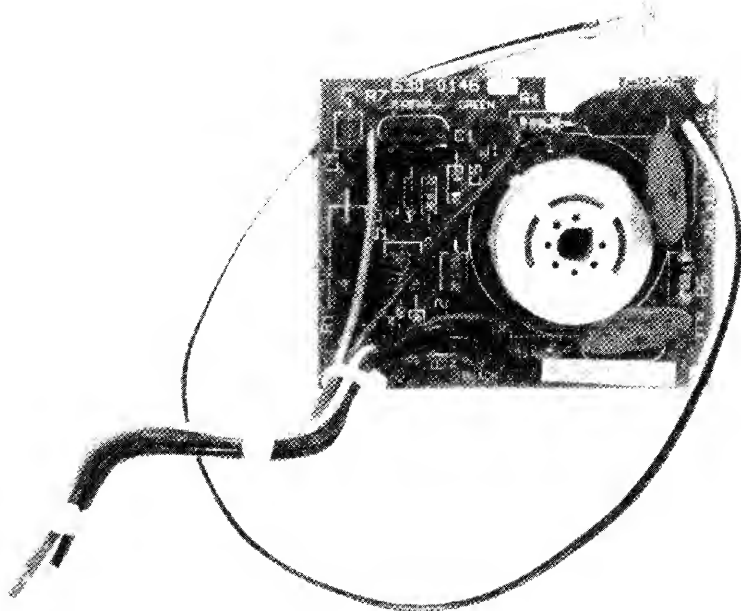
NOTE: Return the anode cable to Apple with the defective board. Keep the brightness knob and all other cables for the customer's replacement board.

Both versions of this board, shown above, are acceptable for return.

Macintosh SE Video Board

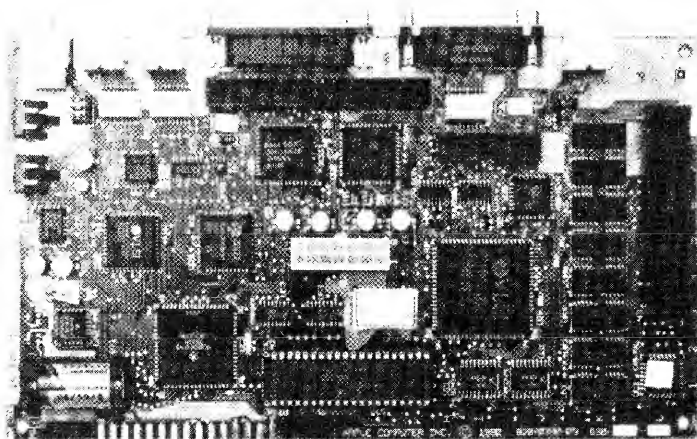
Apple P/N 661-0372

(When you return P/N 661-0372, Apple ships you P/N 982-0024.)



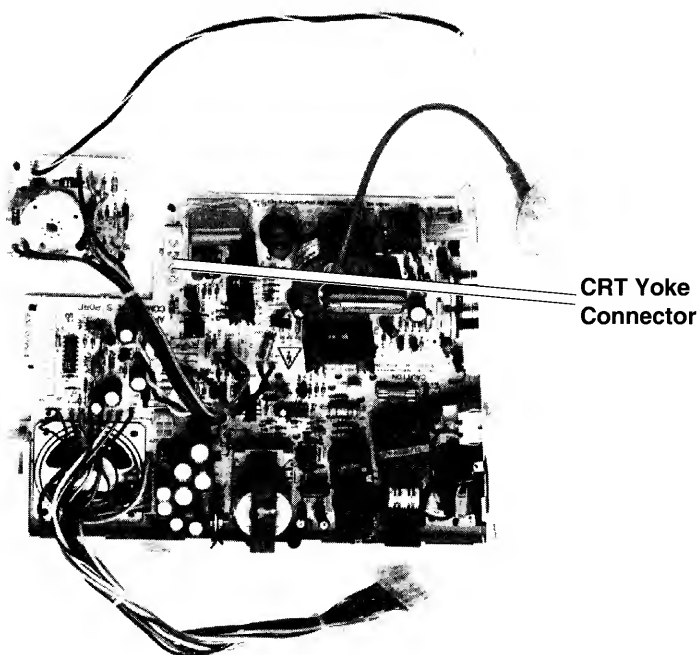
**Macintosh Classic
Logic Board**

Apple P/N 661-0596



Macintosh Classic
Power Sweep Board (110 V) Rev. A

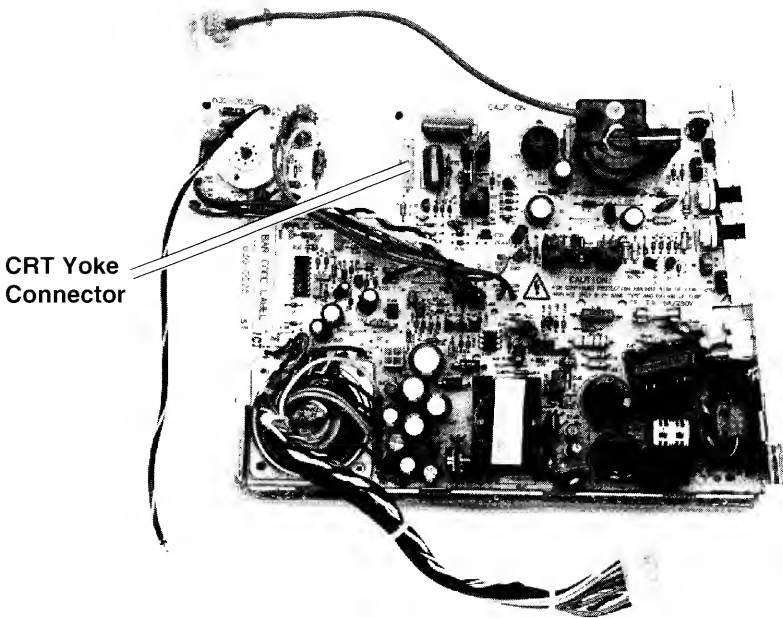
Apple P/N 661-0597



NOTE: The two versions of the power/sweep board, Rev. A and Rev. B, are functionally equivalent, but not interchangeable. The CRT yoke connector on power/sweep board Rev. A has plastic sleeves surrounding the prongs.

Macintosh Classic, Performa 200
Power Sweep Board (110 V) Rev. B

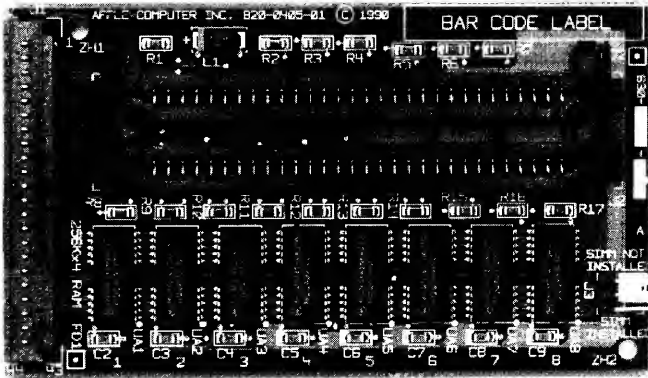
Apple P/N 661-0651



NOTE: The two versions of the power/sweep board, Rev. A and Rev. B, are functionally equivalent, but not interchangeable. The CRT yoke connector on power/sweep board Rev. B is a series of four exposed prongs.

Macintosh Classic Memory Expansion Board

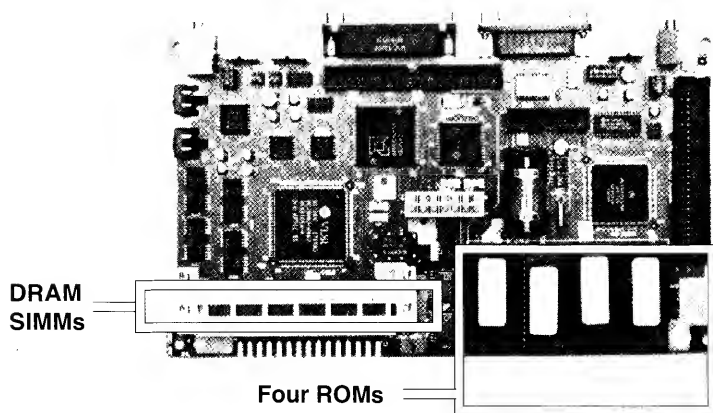
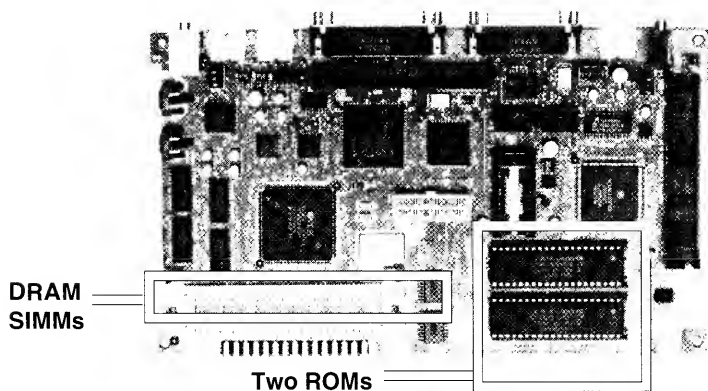
Apple P/N 661-0598



NOTE: Return the Macintosh Classic memory expansion board without RAM SIMMs.

Macintosh Classic II, Performa 200 Logic Board

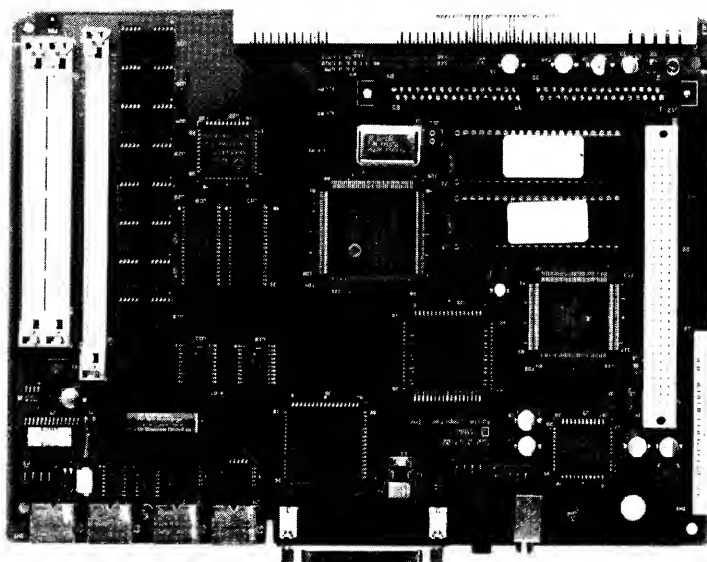
Apple P/N 661-0672



NOTE: Return the logic board without DRAM SIMMs.

Macintosh Color Classic Logic Board

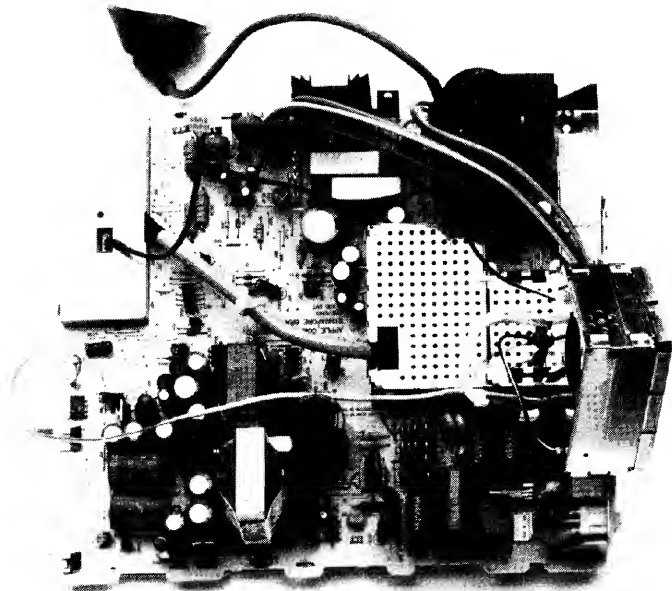
Apple P/N 661-0733



NOTE: Return the Macintosh Color Classic logic board without RAM or VRAM SIMMs.

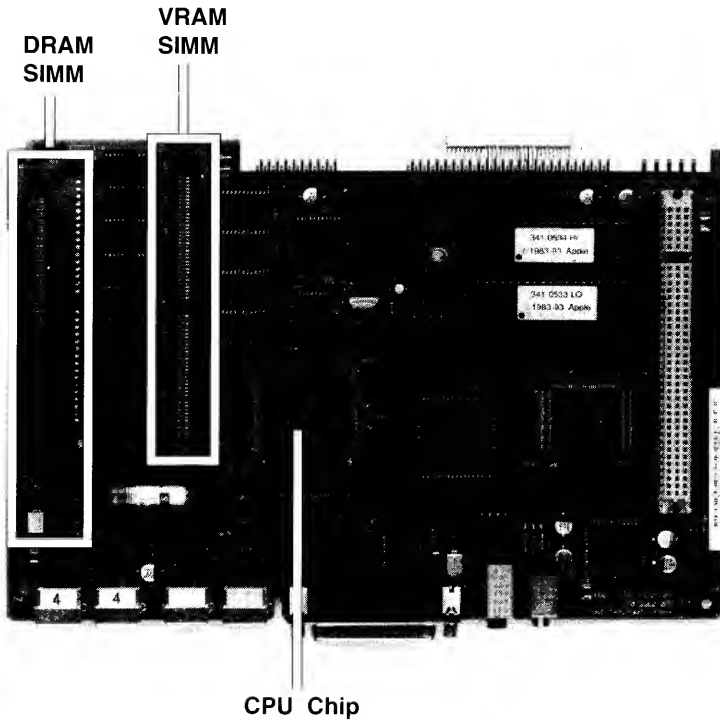
**Macintosh Color Classic
Analog Board**

Apple P/N 661-0732



Macintosh Color Classic II, Performa 275/550 Logic Board

Apple P/N 661-1830

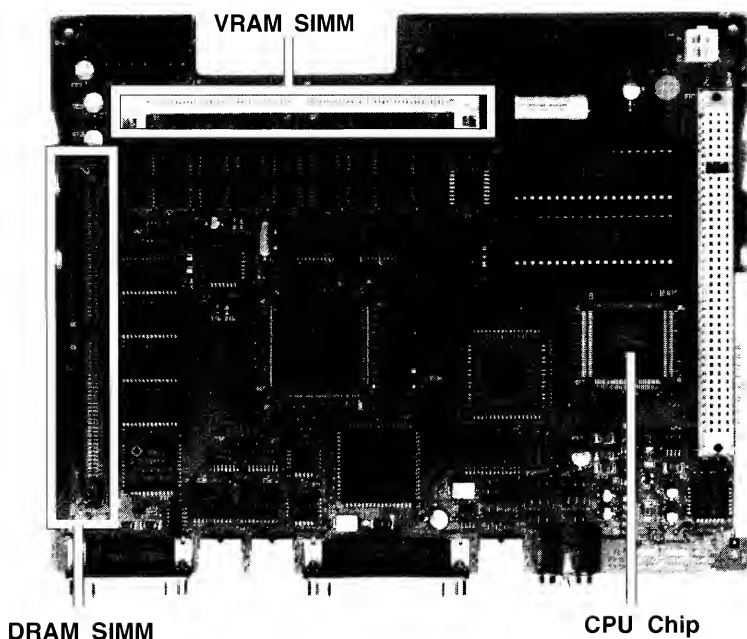


NOTE: Return the logic board without DRAM or VRAM SIMMs.

This logic board has the part number "MC68030FE33B" on the CPU chip.

Performa 460/466/467
Logic Board

Apple P/N 661-1736

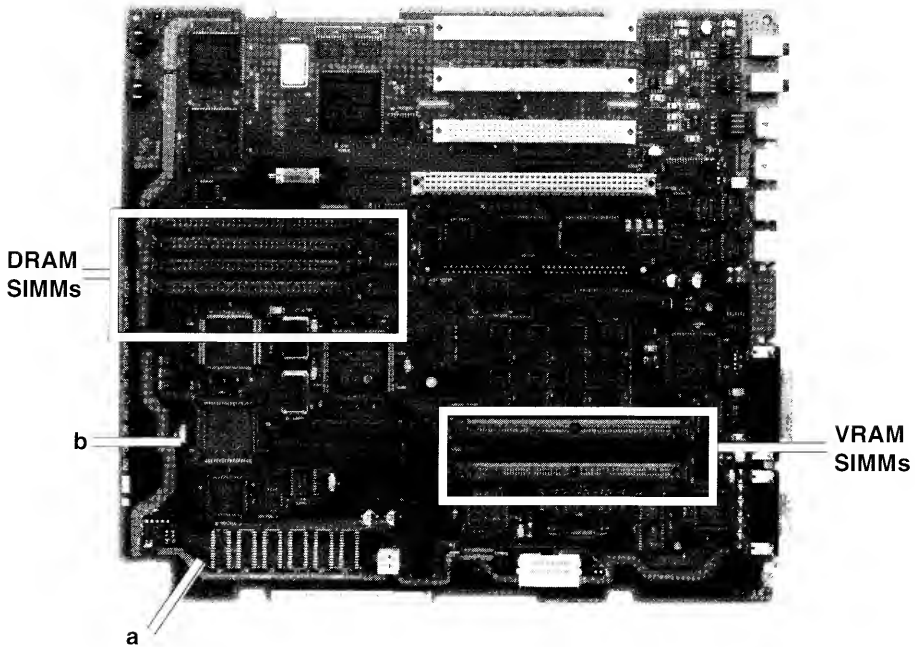


NOTE: Return the logic board without DRAM or VRAM SIMMs.

This logic board has the part number "MC68030FE33B" on the CPU chip.

Performa 600 Logic Board

Apple P/N 661-0761

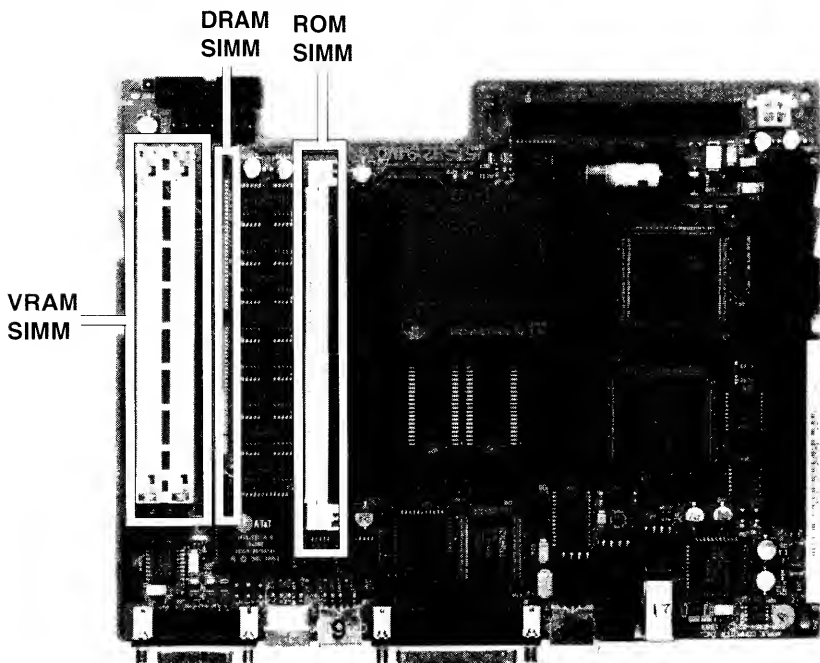


NOTE: Return the logic board without DRAM or VRAM SIMMs.

- a) The Performa 600 logic board does not have components in this area.
- b) If the Performa 600 logic board has an FPU chip, move it to the replacement board.

Macintosh Quadra 605, LC 475,
Performa 475, 476
Logic Board

Apple P/N 661-1732



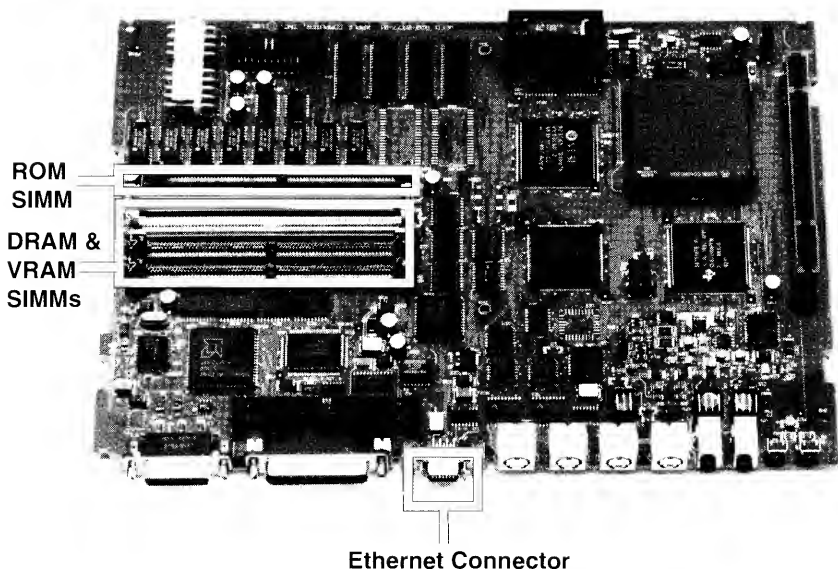
NOTE: Return the logic board without DRAM or VRAM SIMMs.

Retain the jumper cable (P/N 517-0546) on the Macintosh Quadra 605 logic board.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

Macintosh Quadra 610 Logic Board (without FPU)

Apple P/N 661-0042



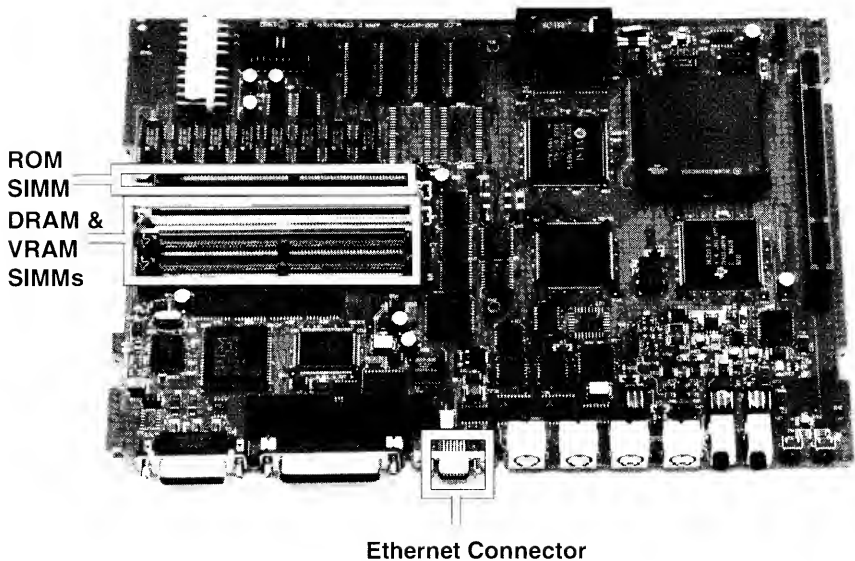
NOTE: This logic board has the part number "PC68LC040RC25" on the CPU chip.

Return the logic board without DRAM or VRAM SIMMs.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

Macintosh Quadra 610 Logic Board

Apple P/N 661-0043



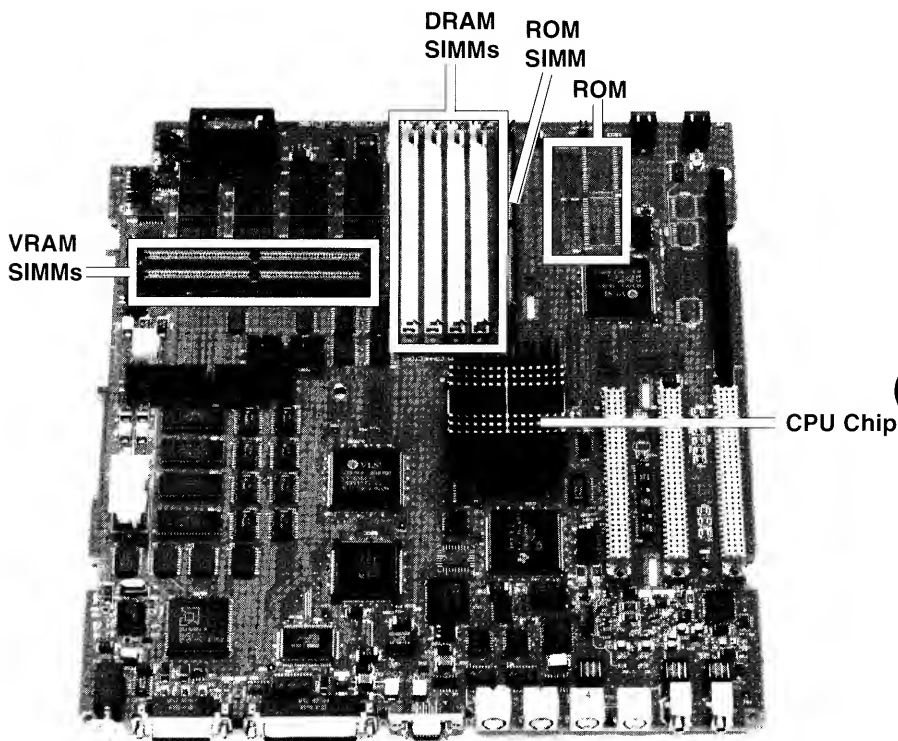
NOTE: This logic board has the part number "PC680C040RC25" on the CPU chip.

Return the logic board without DRAM or VRAM SIMMs.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

Macintosh Quadra 650 Logic Board, 8 MB

Apple P/N 661-0044



NOTE: This logic board has part number "XC68040RC33E" on the CPU chip. You must remove the heat sink to view the part number.

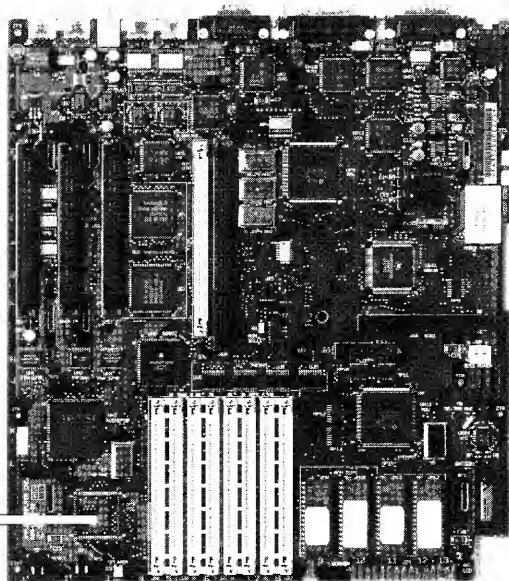
Return the logic board without DRAM or VRAM SIMMs.

The Macintosh Quadra 650 logic board has part numbers 341S1074 and 341S1075 on the ROM chip.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

Macintosh IIci Logic Board

Apple P/N 661-0532

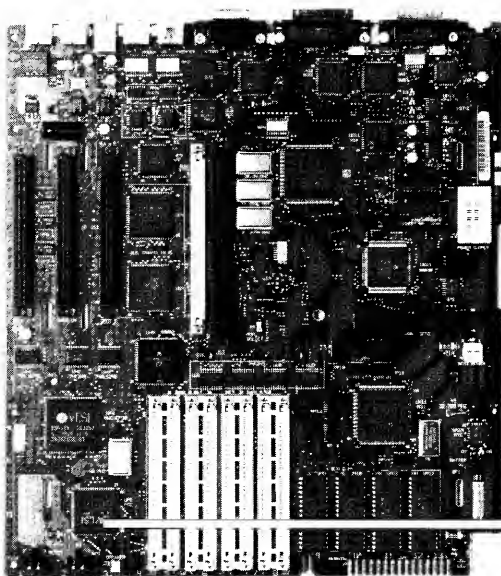


See Note

NOTE: You can distinguish this board from the parity logic board by the absence of an integrated circuit at this location.

Macintosh IIci
Logic Board (with Parity)

Apple P/N 661-0583

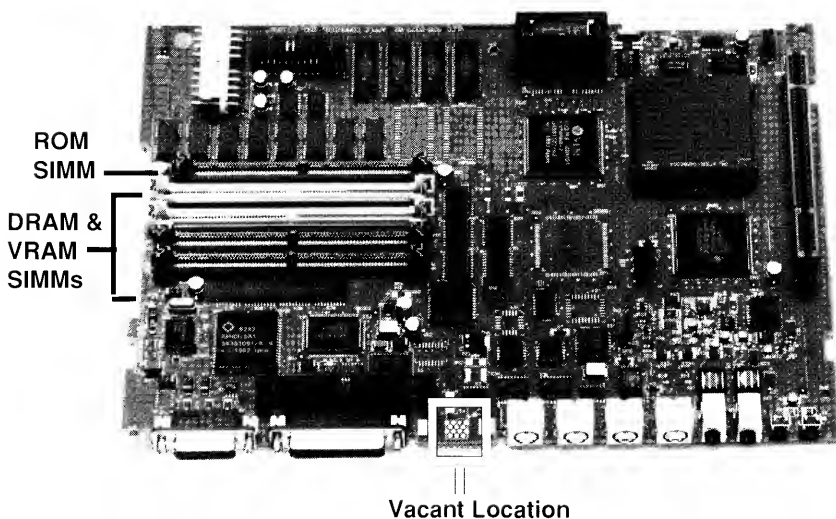


See Note

NOTE: You can distinguish this board from the nonparity logic board by the presence of an integrated circuit at this location.

Macintosh Centris 610 Logic Board

Apple P/N 661-1681



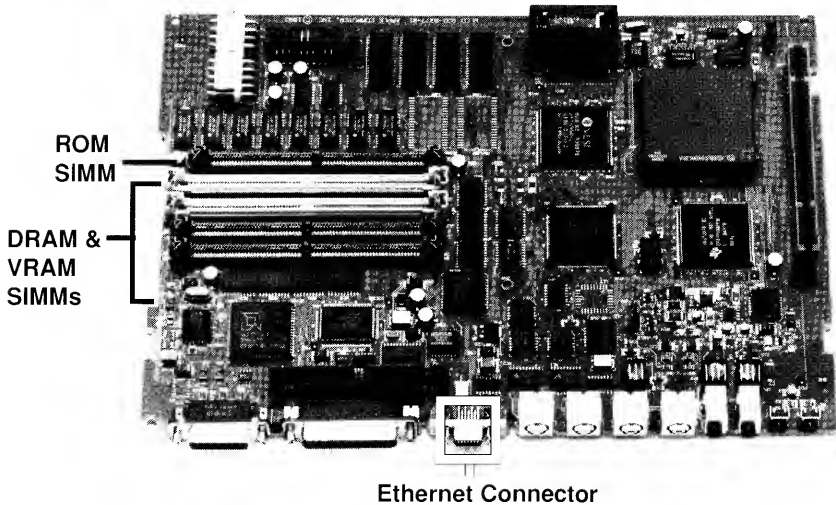
NOTE: Return the Macintosh Centris 610 logic board without DRAM or VRAM SIMMs.

This logic board does not support Ethernet and can be identified by the vacant connector location as indicated.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

Macintosh Centris 610 Logic Board (with Ethernet)

Apple P/N 661-1682



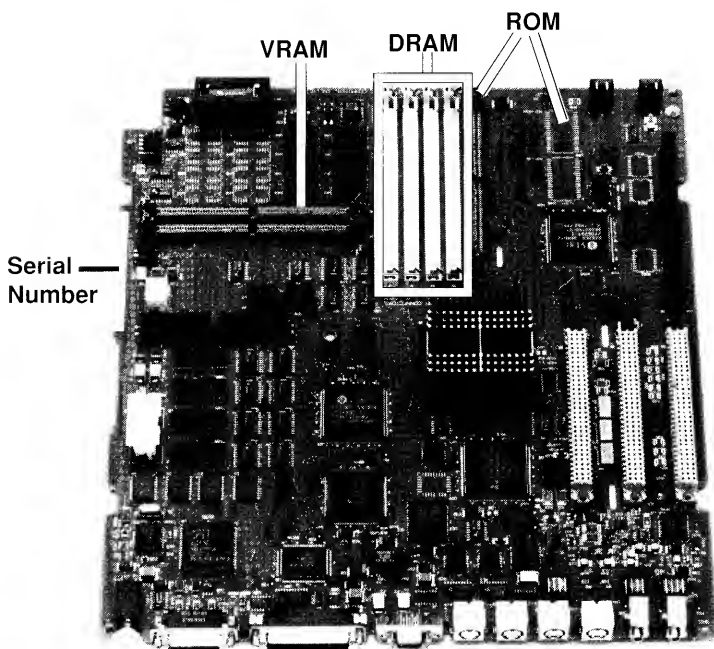
NOTE: Return the Macintosh Centris 610 logic board without DRAM or VRAM SIMMs.

This logic board support Ethernet and can be identified by the Ethernet connector as indicated.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

Macintosh Centris 650
Logic Board, 4 MB, FPU (with Ethernet)

Apple P/N 661-1677



NOTE: To identify the logic board, refer to the module serial number. For P/N 661-1677, the last five characters contain the code ZO2.

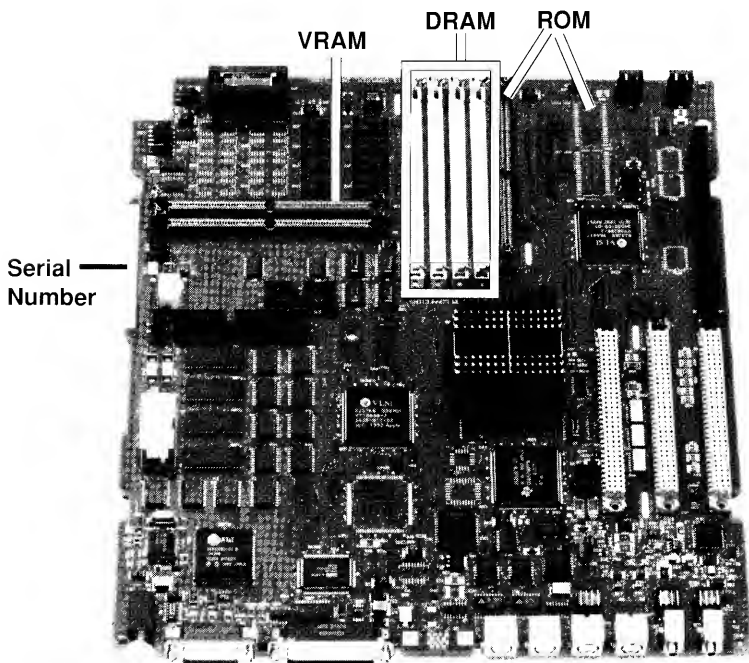
Return the Macintosh Centris 650 logic board without DRAM or VRAM SIMMs.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

Macintosh Centris 650 Logic Board

Apple P/N 661-1675, 4 MB

Apple P/N 661-1679, 4 MB, FPU



NOTE: To identify the logic board, refer to the module serial number:

P/N 661-1675: Last five characters contain the code ZO1.

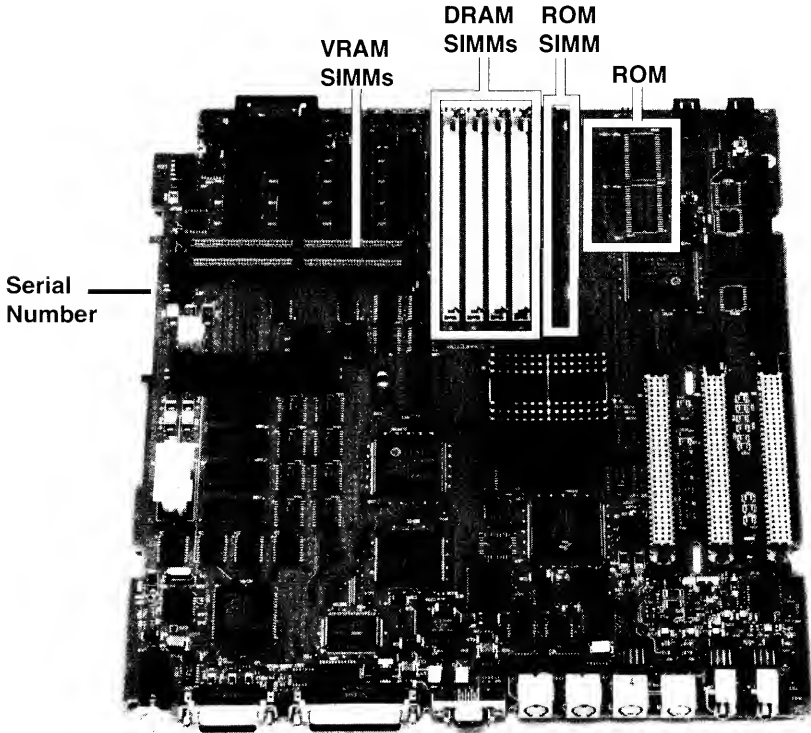
P/N 661-1679: Last five characters contain the code ZO3.

Return the Macintosh Centris 650 logic board without DRAM or VRAM SIMMs.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

Macintosh Centris 650
Logic Board, 8 MB, FPU (with Ethernet)

Apple P/N 661-1678



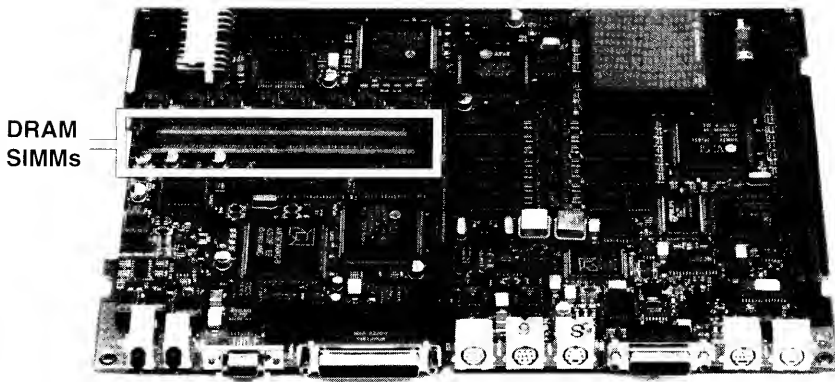
NOTE: To identify the logic board, refer to the module serial number. For P/N 661-1678, the last five characters contain the code ZO4.

Return the Centris 650 logic board without DRAM or VRAM SIMMs.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

Macintosh Centris 660Av Logic Board

Apple P/N 661-1704

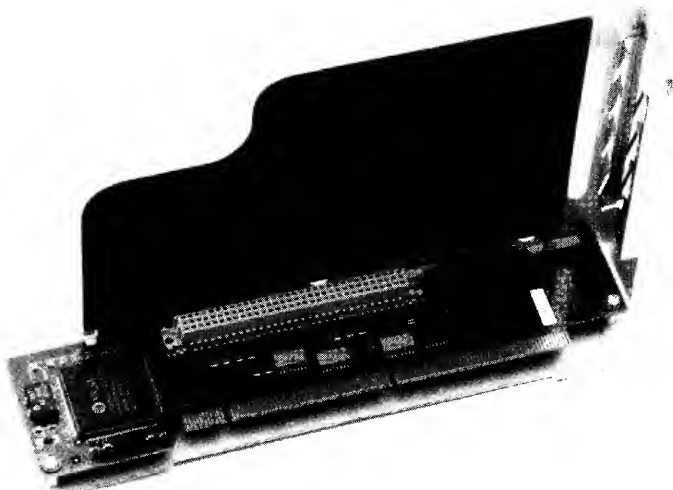


NOTE: Return the Macintosh Centris 660Av logic board without the DRAM SIMMs installed.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

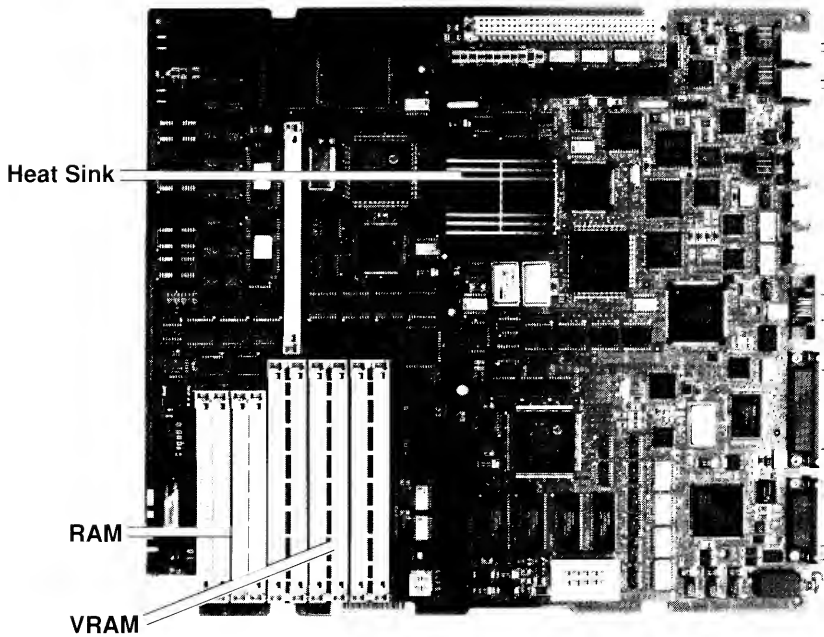
**Macintosh Centris 660AV
NuBus Adapter**

Apple P/N 661-1719



Macintosh Quadra 700 Logic Board

Apple P/N 661-0666

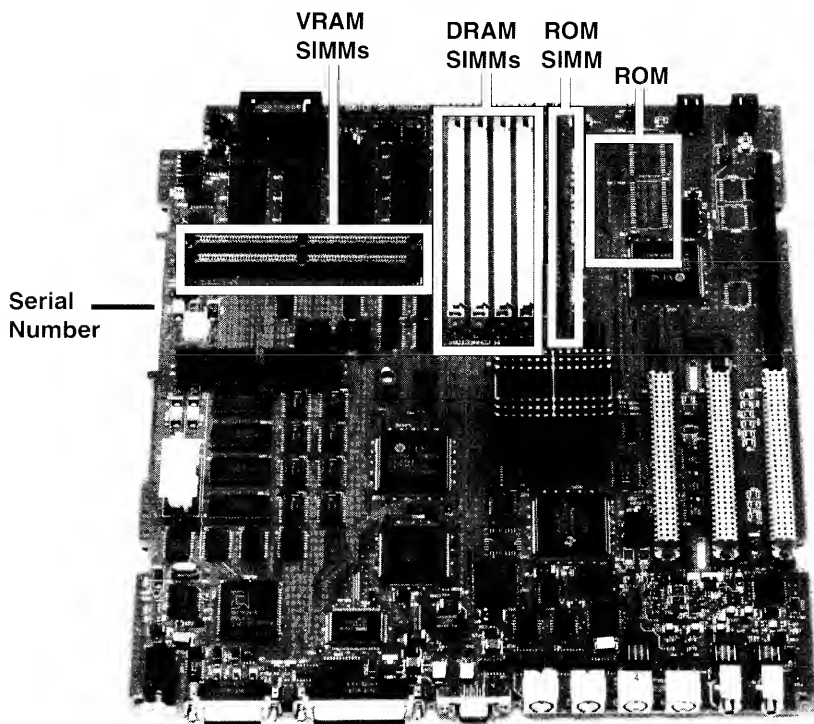


NOTE: The heat sink must remain on the board when you return the board to Apple.

Return the Macintosh Quadra 700 logic board without RAM or VRAM SIMMs.

Macintosh Quadra 800
Logic Board, 8 MB, FPU (with Ethernet)

Apple P/N 661-1676



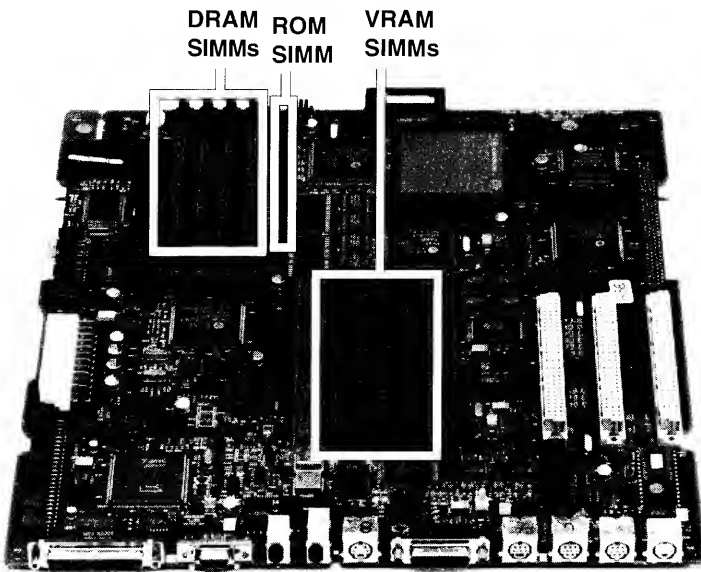
NOTE: To identify the logic board, refer to the module serial number. For P/N 661-1676, the last five characters contain the code ZO5.

Return the Macintosh Quadra 800 logic board without VRAM or DRAM SIMMs.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

Macintosh Quadra 840Av Logic Board

Apple P/N 661-1700

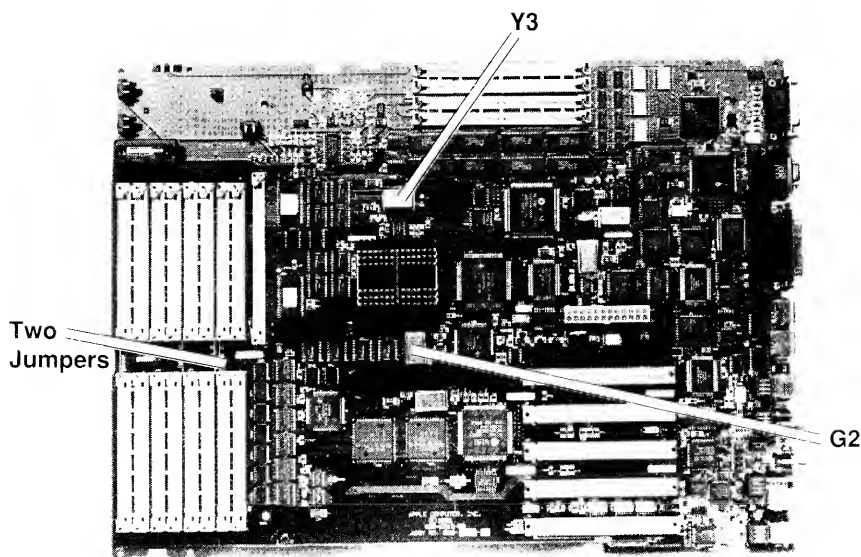


NOTE: Return the Macintosh Quadra 840Av logic board without DRAM or VRAM SIMMs.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

Macintosh Quadra 900 Logic Board

Apple P/N 661-0665



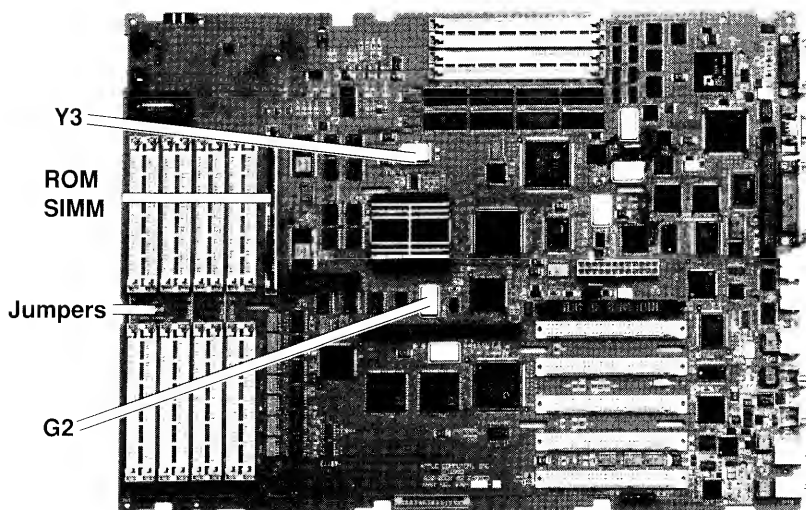
NOTE: Return the logic board with the two short jumpers—the jumpers connecting pin 1 to pin 2 and pin 3 to pin 4—on connector J16.

Return the logic board without RAM SIMMs.

Logic board identification: The Macintosh Quadra 900 logic board looks very similar to the Macintosh Quadra 950 and the Apple Workgroup Server 95 logic boards. If component Y3 is labeled 66.6667 MHz and component G2 is labeled 48.56832 MHz, the board is for a Macintosh Quadra 950 or the Apple Workgroup Server 95. If component Y3 is labeled 50.0000 MHz and component G2 is labeled 31.3344 MHz, the board is for a Macintosh Quadra 900.

Macintosh Quadra 950 Apple Workgroup Server 95 Logic Board

Apple P/N 661-0727



NOTE: Return the logic board with the two short jumpers—the jumpers connecting pin 1 to pin 2 and pin 3 to pin 4—on connector J16.

Some of the early logic boards use ROM SIMMs. ROMs on these boards are marked with the word *Zydeco* or with part numbers *3410291 c/sum 333ca* and *341 c/sum 7d96f* at locations U23 and U50 respectively. **The ROM SIMM must remain on the board when you return the board to Apple.** Later version logic boards do not require ROM SIMMs.

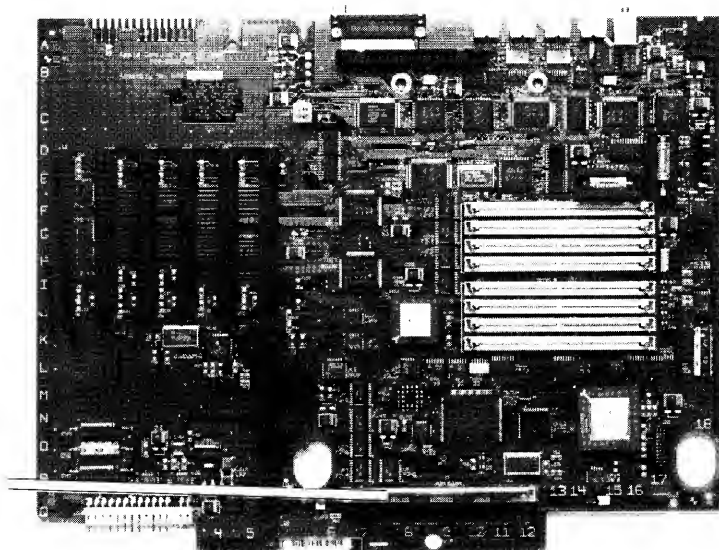
Return the logic board without RAM SIMMs.

Logic board identification: This logic board looks very similar to the Macintosh Quadra 900 logic board. If component Y3 is labeled *66.6667 MHz* and component G2 is labeled *48.56832 MHz*, the board is for a Macintosh Quadra 950 or Apple Workgroup Server 95. If component Y3 is labeled *50.0000 MHz* and component G2 is labeled *31.3344 MHz*, the board is for a Macintosh Quadra 900.

Macintosh IIx Logic Board

Apple P/N 661-0522

ROM
SIMM



NOTE: Remove the on-off switch, EMI shield, and RAM SIMMs before you return the logic board.

Return the Macintosh IIx logic board with the ROM SIMM.

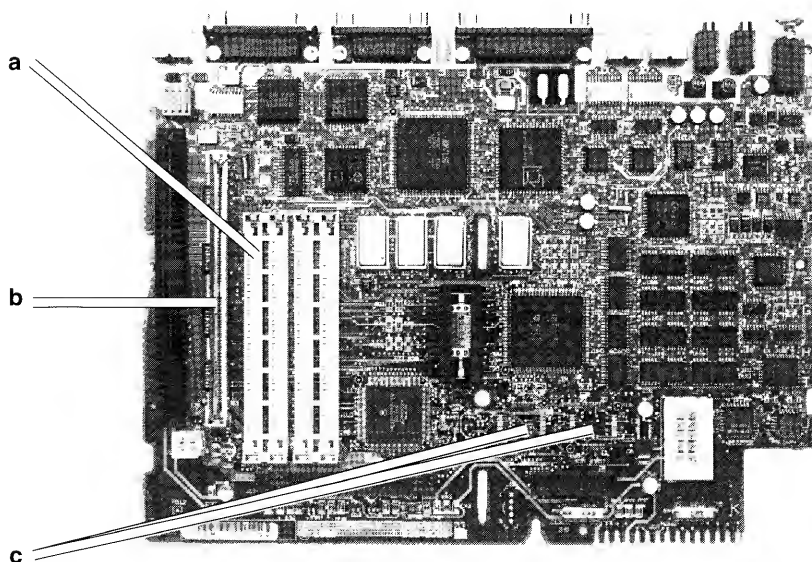
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Macintosh IIsi Logic Board

Apple P/N 661-1615

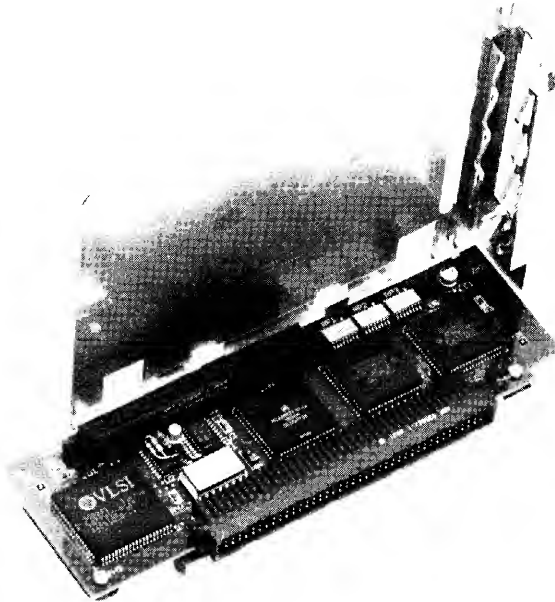


NOTE:

- a) Return the Macintosh IIsi without RAM SIMMs.
- b and c) The logic board includes either a 64-pin ROM SIMM located at position (b) or two ROM chips located at position (c). These ROM configurations are functionally identical. The ROM chips are soldered to the board. The ROM SIMM must remain on the board when you return the board to Apple.

Macintosh IIsi
NuBus Expansion Adaptor

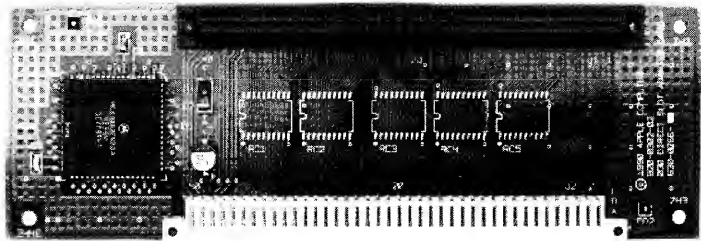
Apple P/N 661-0645



NOTE: Retain the thumbscrews that mount the adaptor for use with the customer's replacement adaptor.

Macintosh IIsi
'030 Direct Slot Expansion Adaptor

Apple P/N 661-0644



NOTE: Retain the '030 card-mounting bracket for use with the customer's replacement adaptor.

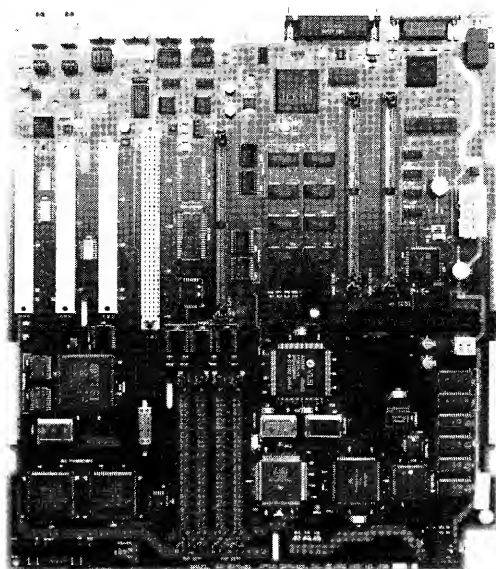
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Macintosh IIvx Logic Board

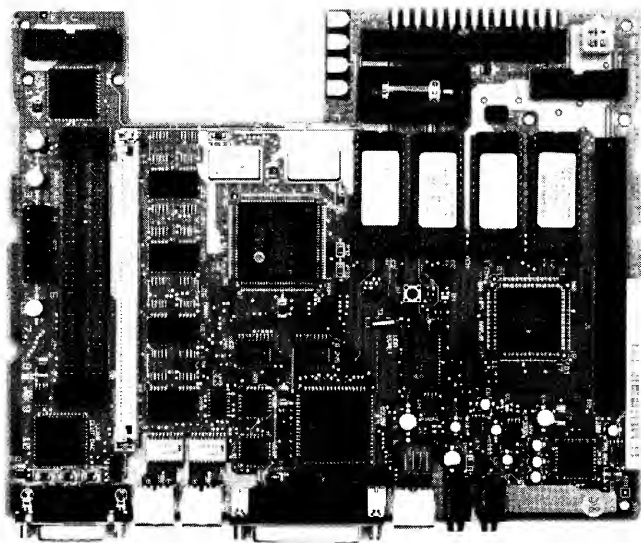
Apple P/N 661-0759



NOTE: Return the Macintosh IIvx logic board without RAM or VRAM SIMMs.

**Macintosh LC
Main Logic Board**

Apple P/N 661-0593



Macintosh LC II
Logic Board, 2 MB

Apple P/N 661-0728

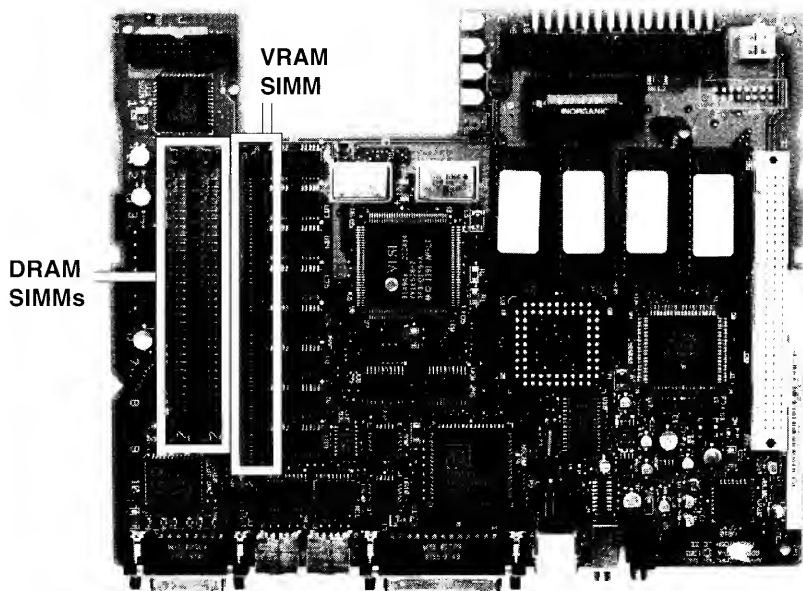
**Photograph not available
at the time of printing**

NOTE: The 2 MB version of the Macintosh LC II logic board looks the same as the 4 MB version except that the 2 MB version has four DRAM ICs soldered in locations UI2-UI9 rather than eight DRAM ICs.

Return the Macintosh LC II logic board without RAM SIMMs or VRAM SIMMs.

Macintosh LC II, Performa 400/405/410/430
Logic Board, 4 MB

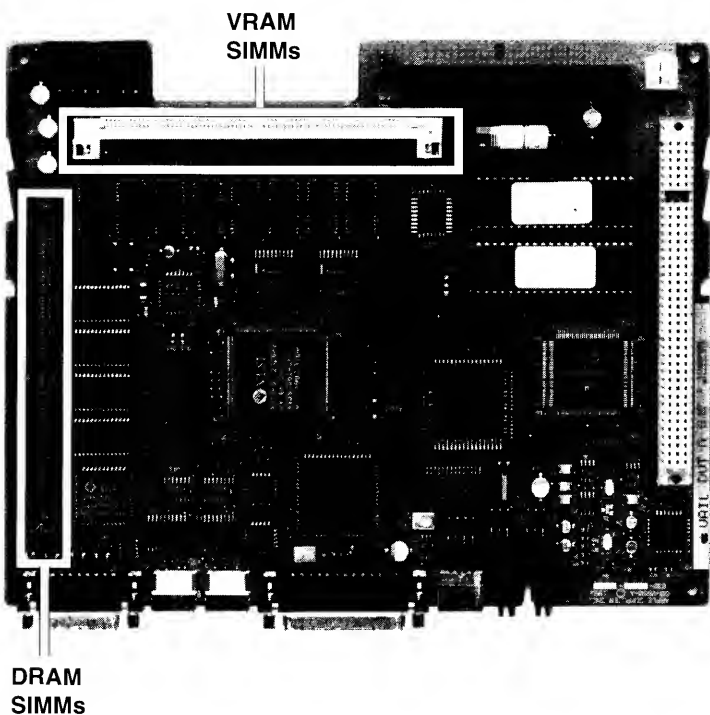
Apple P/N 661-0729



NOTE: Return the logic board without DRAM or VRAM SIMMs.

Macintosh LC III, Performa 450 Logic Board

Apple P/N 661-0720

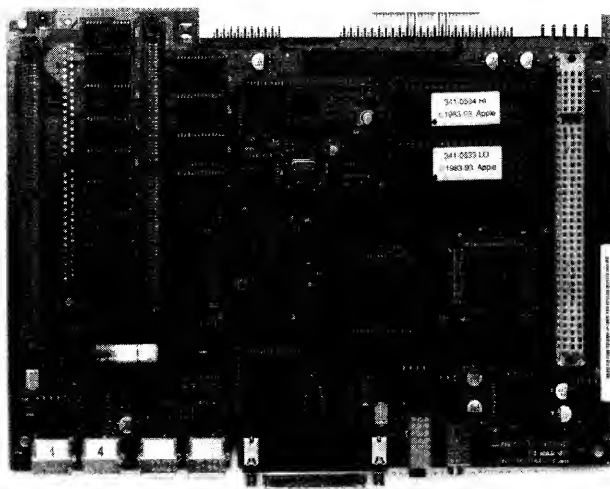


NOTE: Some Macintosh LC III logic boards have a jumper wire soldered between components LP1, U22, and C17.

Return the logic board without DRAM or VRAM SIMMs.

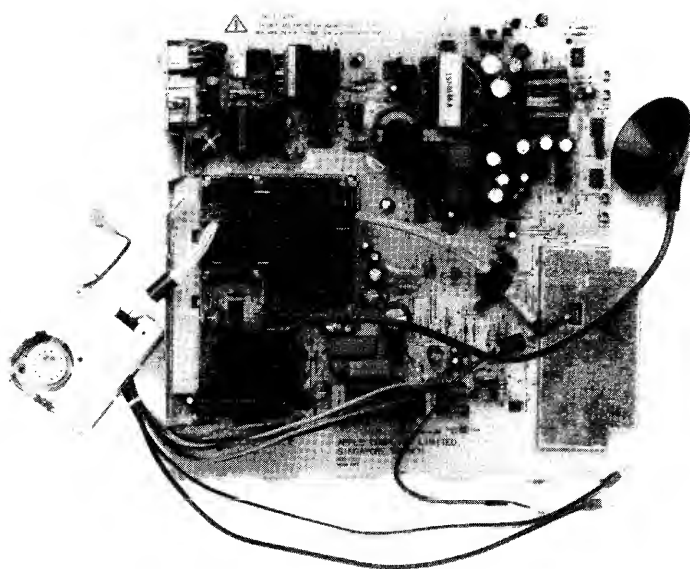
Macintosh LC 520
Logic Board

Apple P/N 661-0812



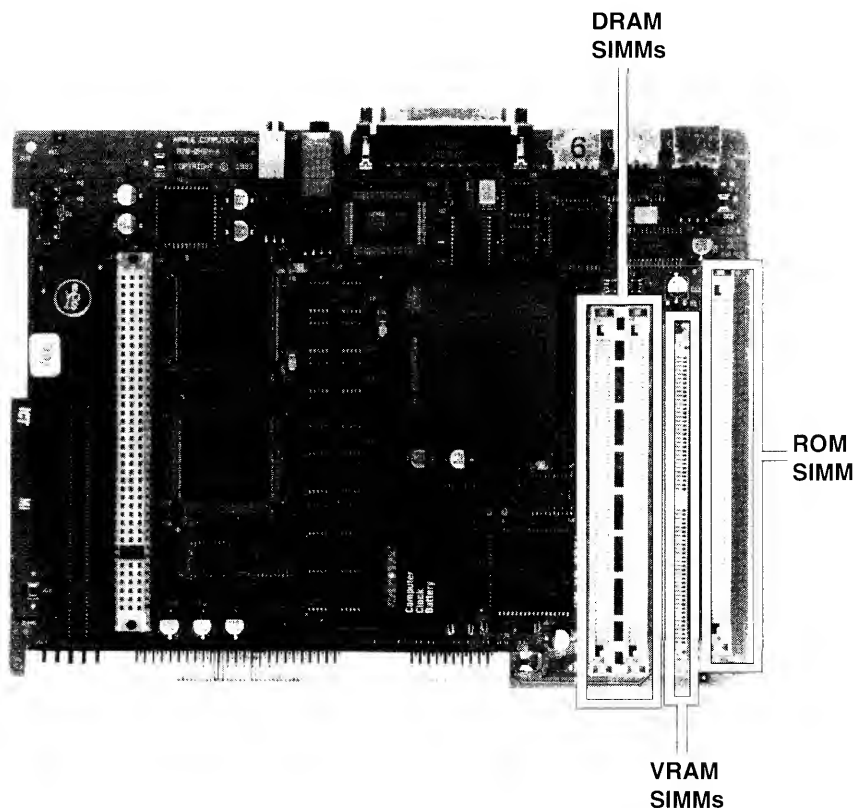
Macintosh LC 520
Analog Board

Apple P/N 661-0813



Macintosh LC 575 Logic Board, 33 MHz

Apple P/N 661-0867



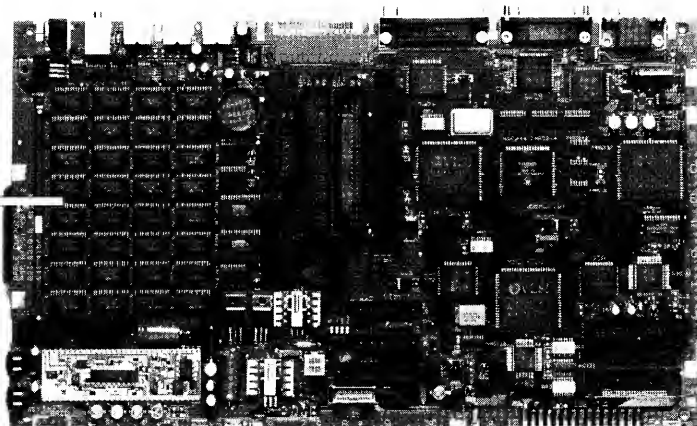
NOTE: Return the Macintosh LC575 logic board without VRAM or DRAM SIMMs.

IMPORTANT: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

Macintosh Portable Logic Board

Apple P/N 661-0470

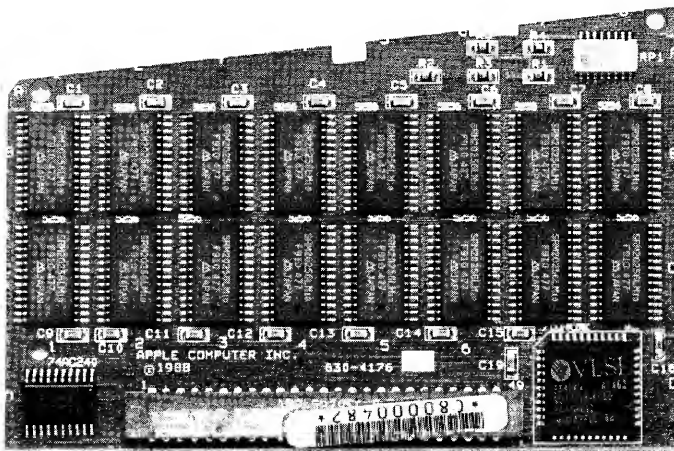
See Note



NOTE: This board has 32 RAM chips.

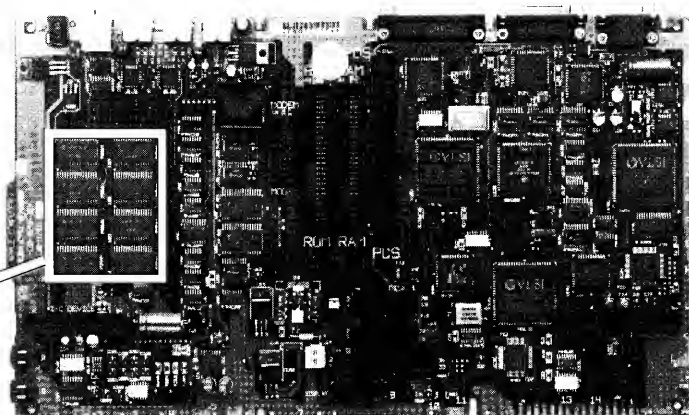
Macintosh Portable
RAM Expansion Card, 1 MB

Apple P/N 661-0480



Macintosh Portable Logic Board, PSRAM

Apple P/N 661-1610

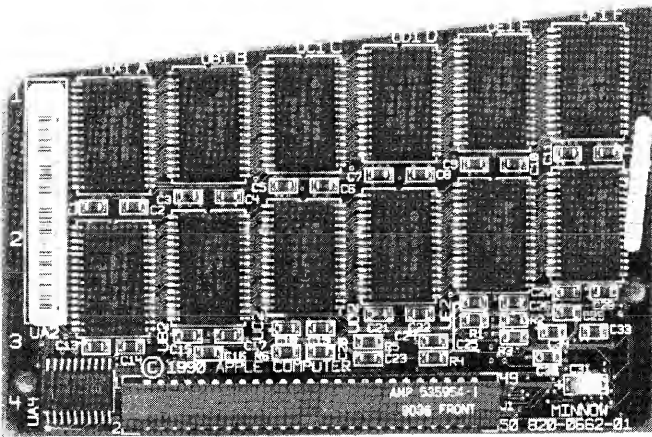


See Note

NOTE: This logic board has eight RAM chips.

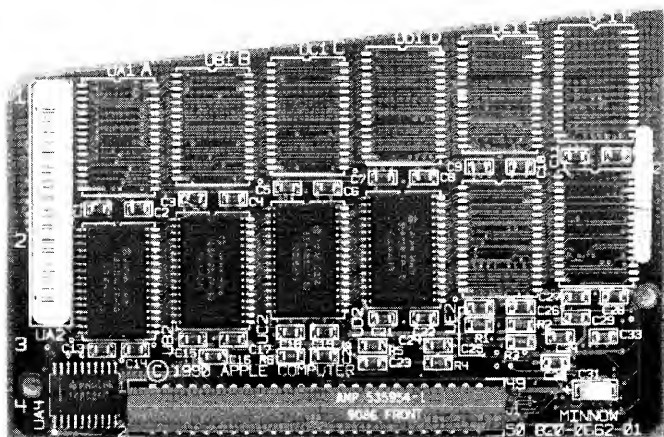
Macintosh Portable
3 MB PSRAM Expansion Card

Apple P/N 661-1613



Macintosh Portable
1 MB PSRAM Expansion Card

Apple P/N 661-1614



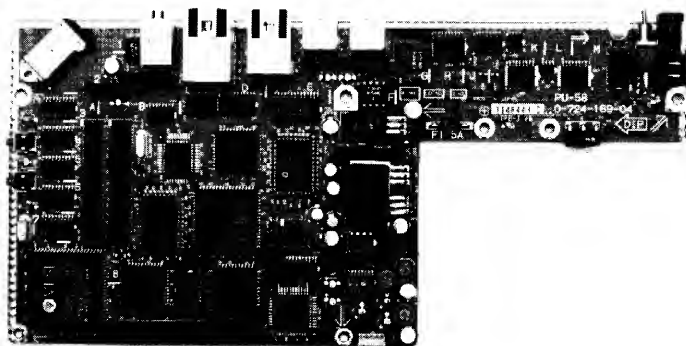
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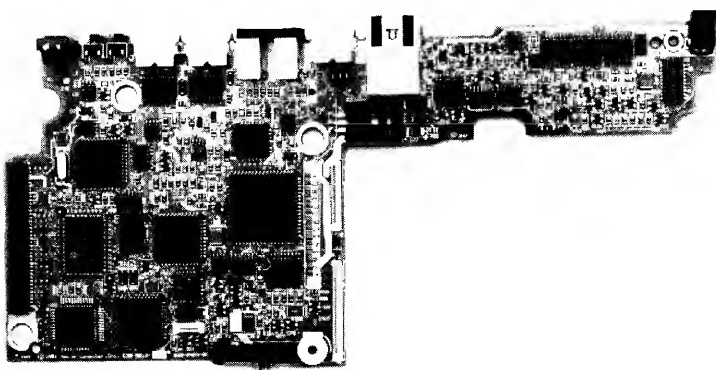
**PowerBook 100
Motherboard**

Apple P/N 661-0673



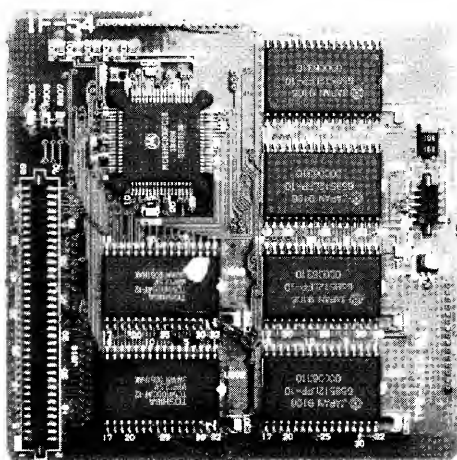
PowerBook 140/145/170
Motherboard

Apple P/N 661-0708



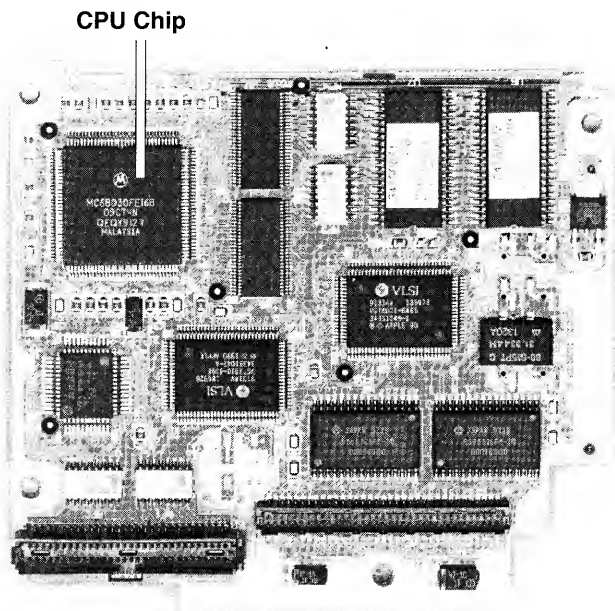
**PowerBook 100
Daughterboard**

Apple P/N 661-0674



PowerBook 140 Daughterboard

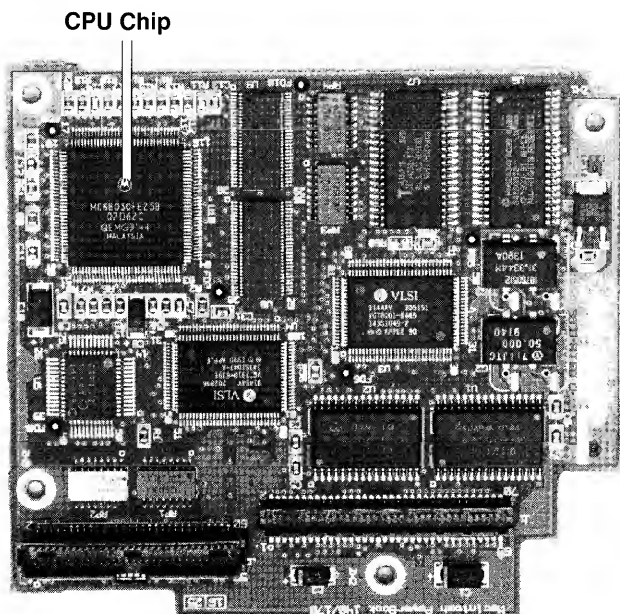
Apple P/N 661-0707



NOTE: The PowerBook 140, 145, and 170 daughterboards are similar. You can identify the PowerBook 140 daughterboard by the number **16** in the CPU chip part number and by the absence of a 68882 chip on the underside.

PowerBook 170 Daughterboard

Apple P/N 661-0709



NOTE: The PowerBook 140, 145, and 170 daughterboards are similar. You can identify the PowerBook 170 daughterboard by the number 25 in the CPU chip part number and by the presence of a 68882 chip on the underside.

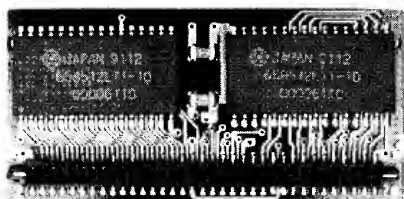
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**PowerBook 100/140/145/145B/160/170
PSRAM Expansion Card, 2 MB**

Apple P/N 661-0715

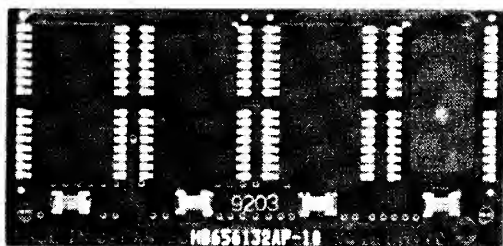


PowerBook 100

PSRAM Expansion Card, 4 MB, 100 ns

Apple P/N 661-0714

(When you return the PSRAM Expansion Card for the PowerBook 100, Apple ships you P/N 661-1103.)



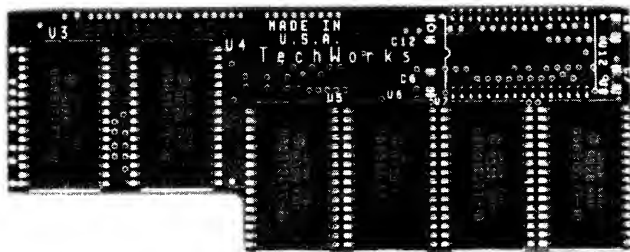
PowerBook 100

PSRAM Expansion Card, 4 MB, 100 ns

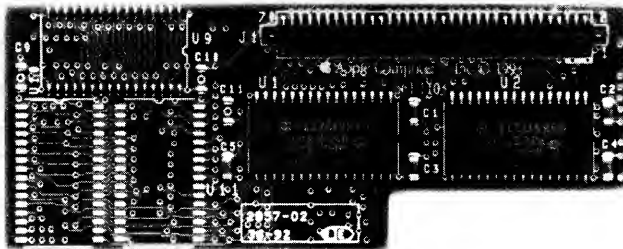
Apple P/N 661-1103

(When you return the PSRAM Expansion Card for the PowerBook 140/145/145B/160/165c/170/180c, Apple ships you P/N 661-0790.)

Top



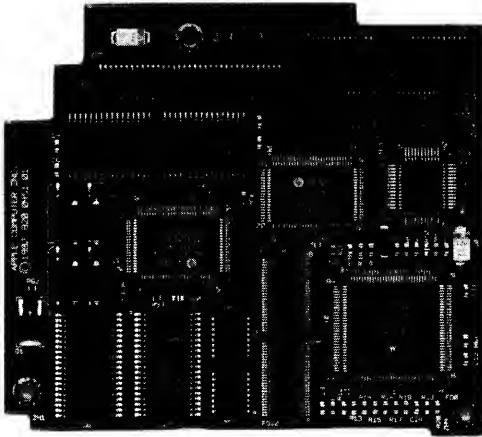
Bottom



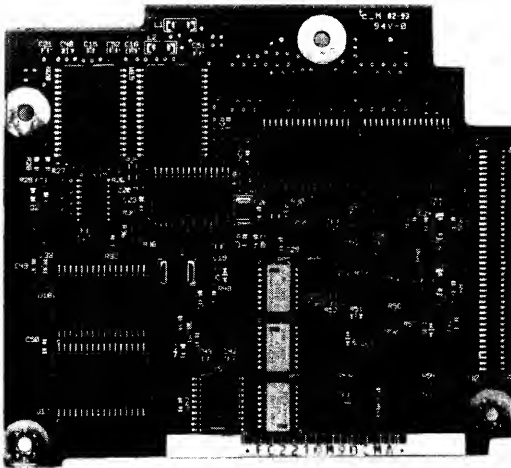
PowerBook 145B Daughterboard

Apple P/N 661-1715

Front



Back

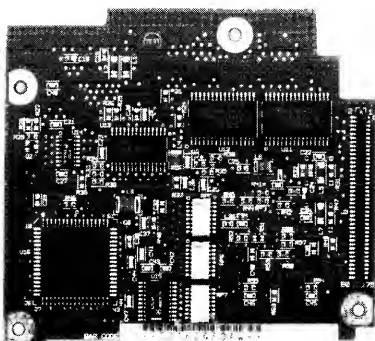


NOTE: The PowerBook 145B daughterboard has RAM chips at locations U17, U18, U18, and U20.

PowerBook 145 Daughterboard

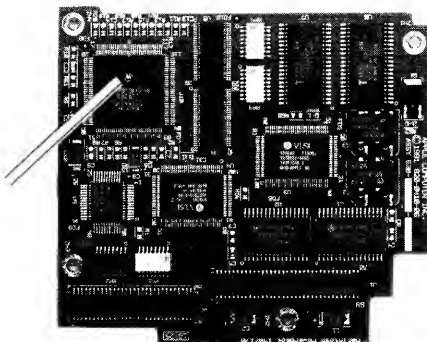
Apple P/N 661-0788

Front



Back

CPU
Chip



NOTE: The PowerBook 140, 145, and 170 daughterboards are similar. You can identify the PowerBook 145 daughterboard by the number 25 in the CPU chip part number and by the absence of a 68882 chip on the underside.

(

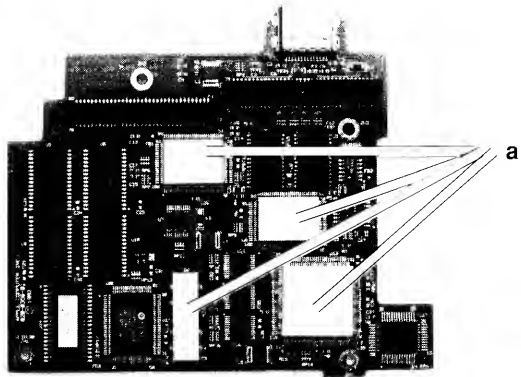
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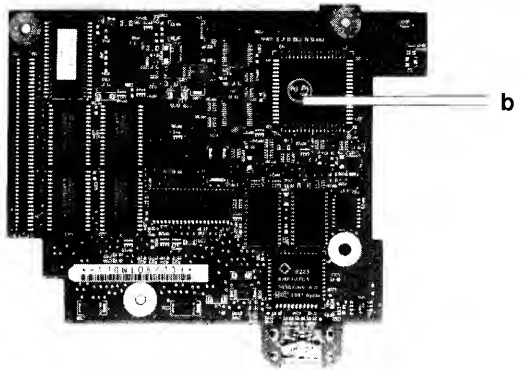
PowerBook 160 Daughterboard

Apple P/N 661-0744

Top



Bottom



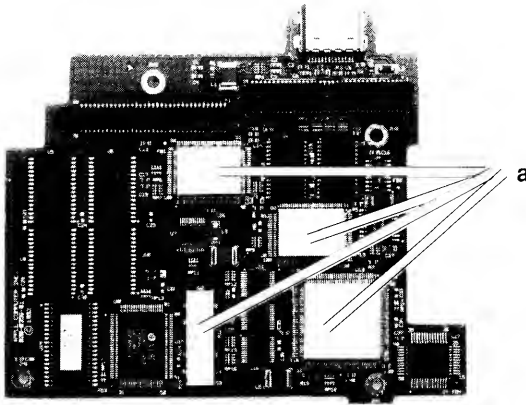
NOTE:

- a) If any of the chromeric heat sinks is missing, return module to Apple for exchange.
- b) The PowerBook 160 and 180 daughterboards look similar. You can identify the PowerBook 160 daughterboard by the absence of a 68882 chip on the underside.

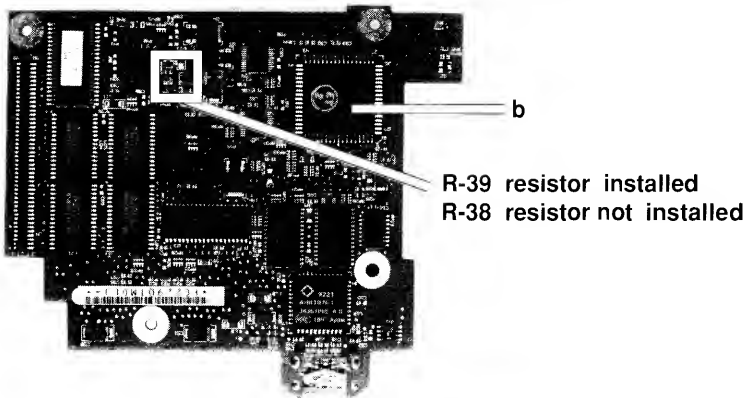
PowerBook 165 Daughterboard

Apple P/N 661-1016

Top



Bottom

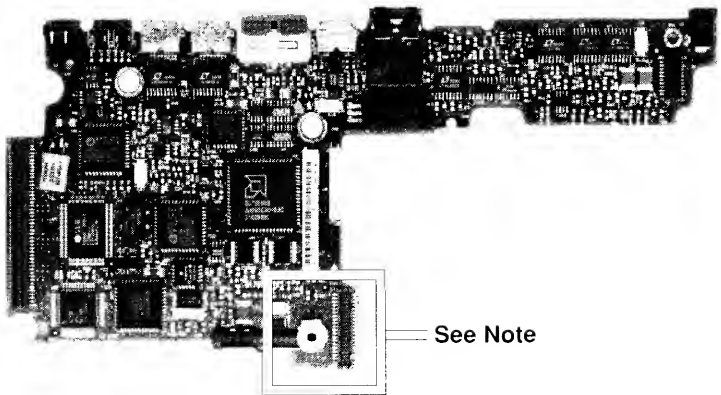


NOTE:

- a) If any of the chromeric heat sinks is missing, return module to Apple for exchange.
- b) The PowerBook 160, 165, and 180 daughterboards look similar. To identify the PowerBook 165 daughterboard, check the underside of the board for resistors R-38 and R-39. On the PowerBook 165 daughterboard, resistor R-39 is installed and resistor R-38 is missing.

PowerBook 160/165/180 Motherboard

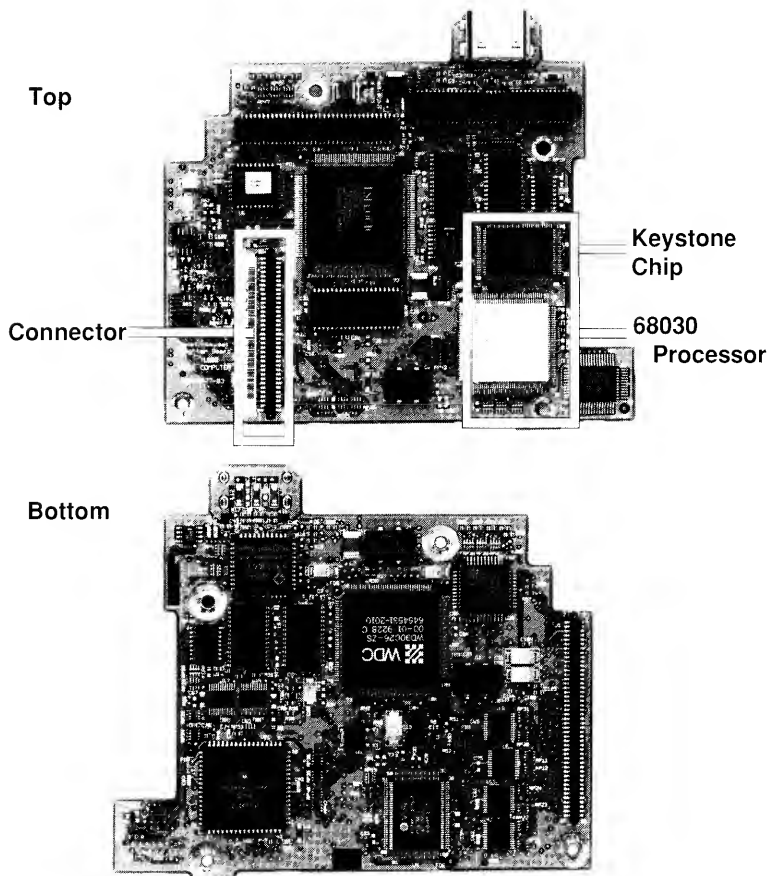
Apple P/N 661-0746



NOTE: The PowerBook 160/165/180 motherboard and the PowerBook 140/145/170 motherboard are similar. The PowerBook 160/165/180 motherboard is extended at the hard drive cable connector.

PowerBook 165c Daughterboard

Apple P/N 661-0751

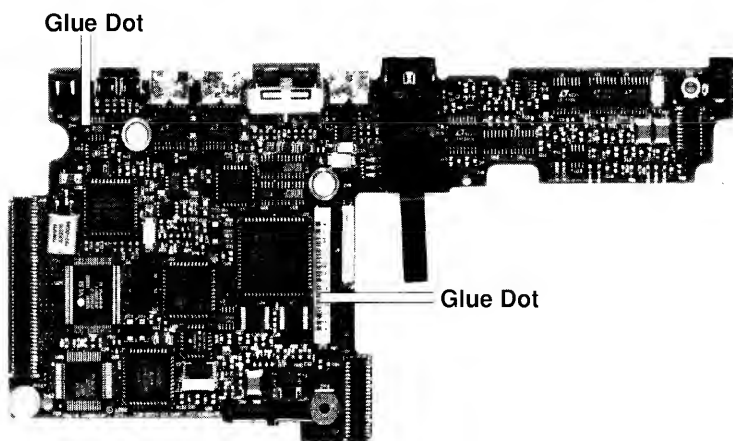


NOTE: The PowerBook 165c daughterboard has heat sinks over the keystone chip and the 68030 processor. Missing or damaged heat sinks must be replaced. Use the heat sink kit listed in the PowerBook *Service Price Pages*.

The PowerBook 165c and 180c daughterboards look similar. Both have a connector to hold the cousin card; however, only the PowerBook 165c daughterboard has a flat-panel display IC (WD90C55) at location U12.

PowerBook 165c/180c Motherboard

Apple P/N 661-0765

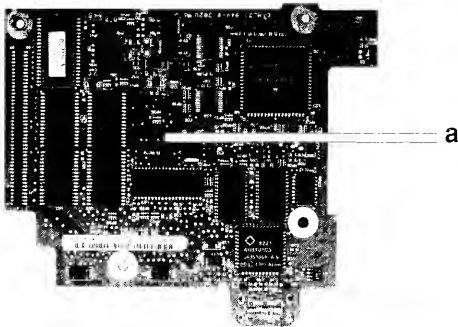


NOTE: The PowerBook 165c/180c and 160/180 motherboards are similar. You can identify the PowerBook 165c/180c motherboard by two glue dots.

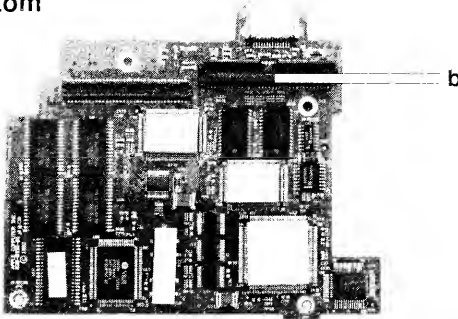
PowerBook 180 Daughterboard

Apple P/N 661-0747

Top



Bottom



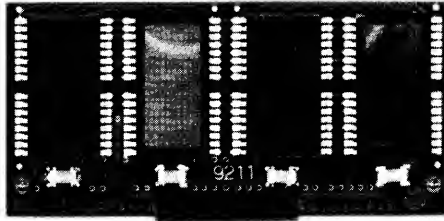
NOTE:

- a) Missing or damaged heat sinks must be replaced.
Use the heat sink kit listed in the *PowerBook Service Price Pages*.
- b) The PowerBook 180 and 160 daughterboards are similar. You can identify the PowerBook 180 daughterboard by a 68882 chip on the underside.

PowerBook 140/145/145B/160/165/165c/
170/180c

PSRAM Expansion Card, 4 MB, 85 ns

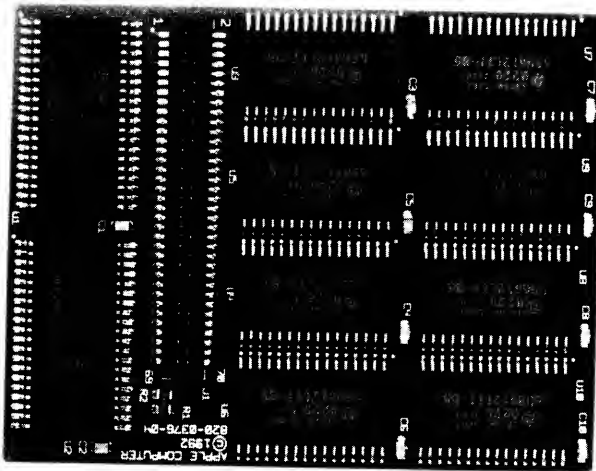
Apple P/N 661-0790



NOTE: The code HB656132AP-85 appears on the top side of the PSRAM card.

PowerBook 165c/180c
Cousin Card

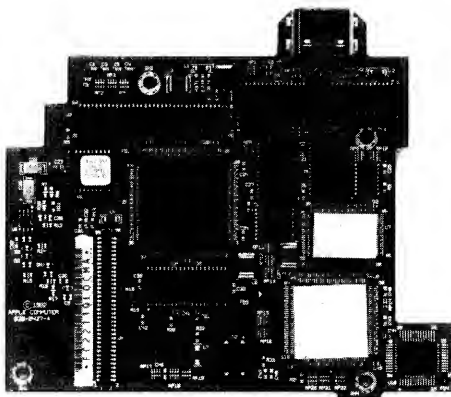
Apple P/N 661-0755



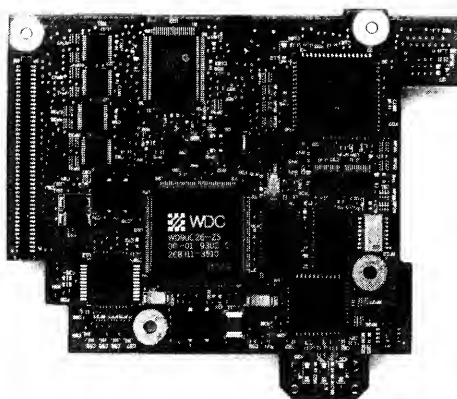
PowerBook 180c Daughterboard

Apple P/N 661-0684

Top



Bottom



NOTE: The PowerBook 180c daughterboard has heat sinks over the keystone chip and the 68030 processor. Missing or damaged heat sinks must be replaced. Use the heat sink kit listed in the *PowerBook Service Price Pages*.

The PowerBook 180c and 165c daughterboards look similar. Both have a connector to hold the cousin card; however, the PowerBook 180c daughterboard does not have a flat-panel display IC (WD90C55) at location U12.

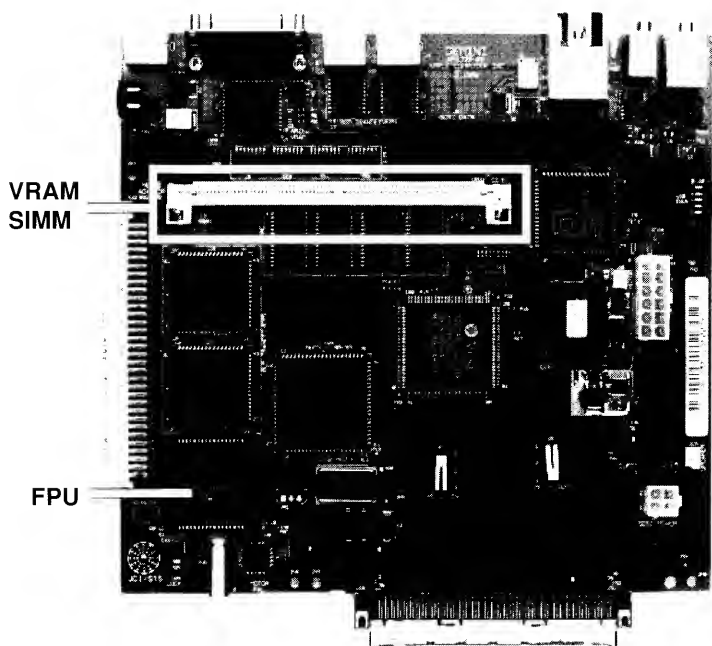
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Macintosh Duo Dock Logic Board

Apple P/N 661-1657

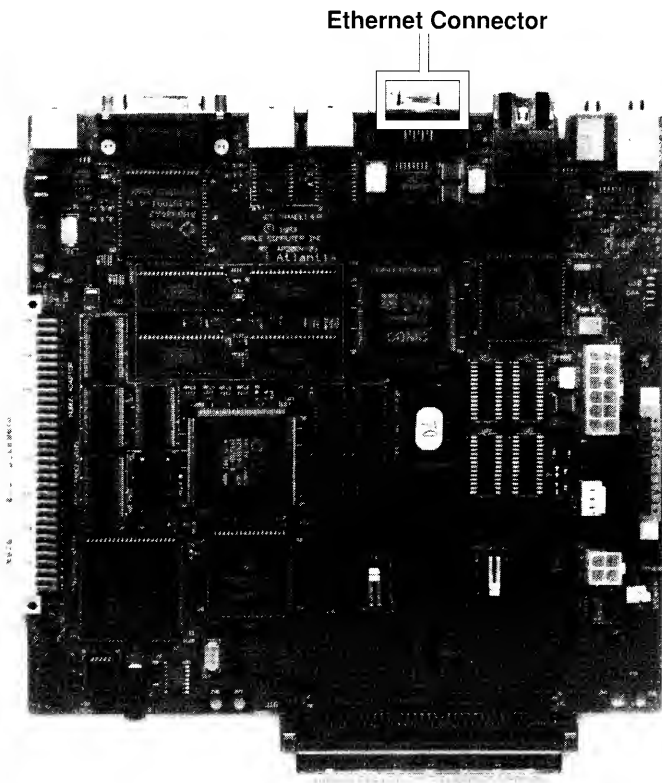


NOTE: Return the Macintosh Duo Dock logic board without the VRAM SIMM.

For upgrades: If the logic board contains an FPU upgrade, transfer the upgraded components to the customer's new logic board.

Macintosh Duo Dock II Logic Board

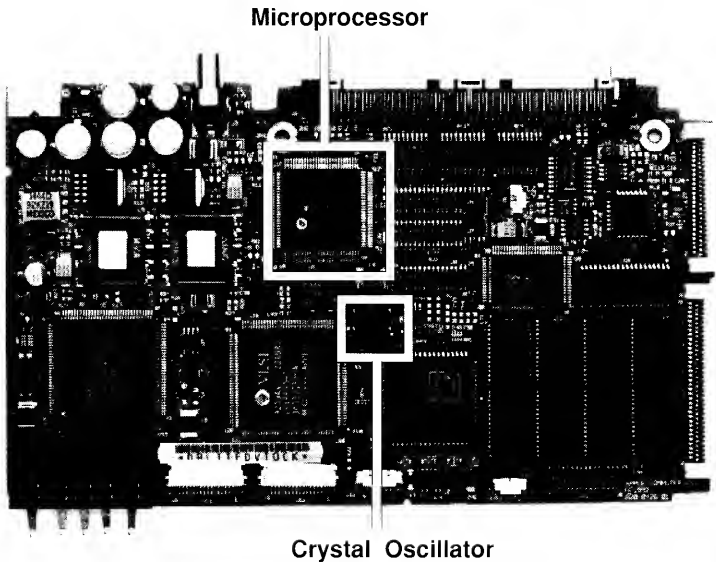
Apple P/N 661-1707



NOTE: The Macintosh Duo Dock II logic board has an Ethernet connector.
The Macintosh Duo Dock logic board does not.

**PowerBook Duo 210
Logic Board, 25 MHz**

Apple P/N 661-1653

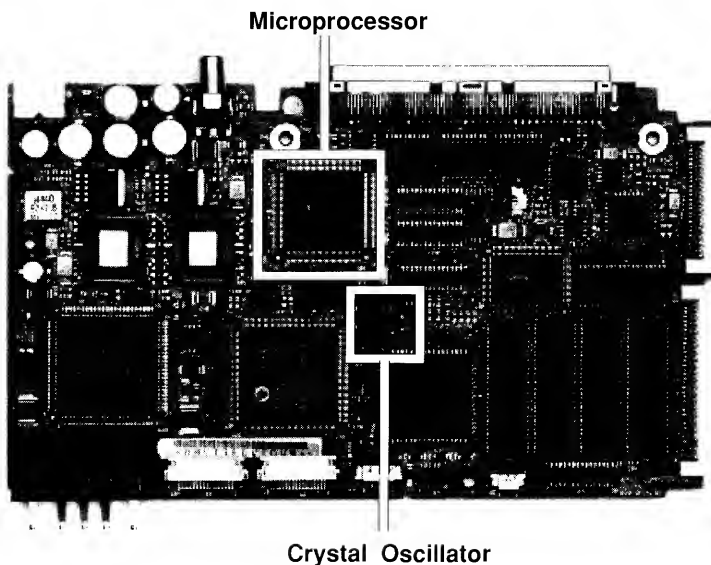


NOTE: In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

The crystal oscillator at location G1 is 50.000 MHz. The microprocessor at location U5 is 25 MHz.

PowerBook Duo 230 Logic Board, 33 MHz

Apple P/N 661-1672

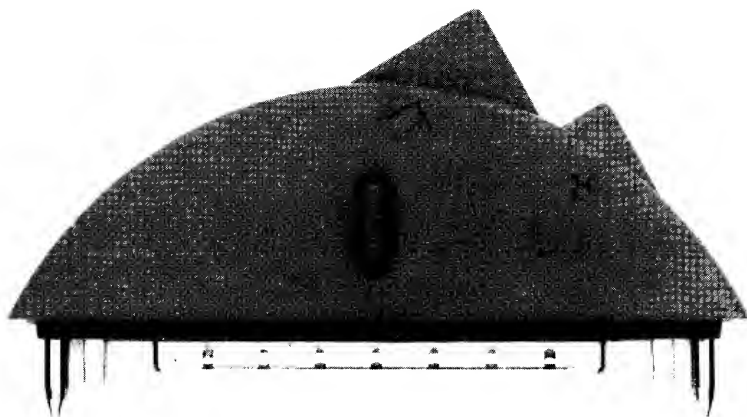


NOTE: In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

The crystal oscillator at location G1 is 66.6677 MHz. The microprocessor at location U5 is 33 MHz.

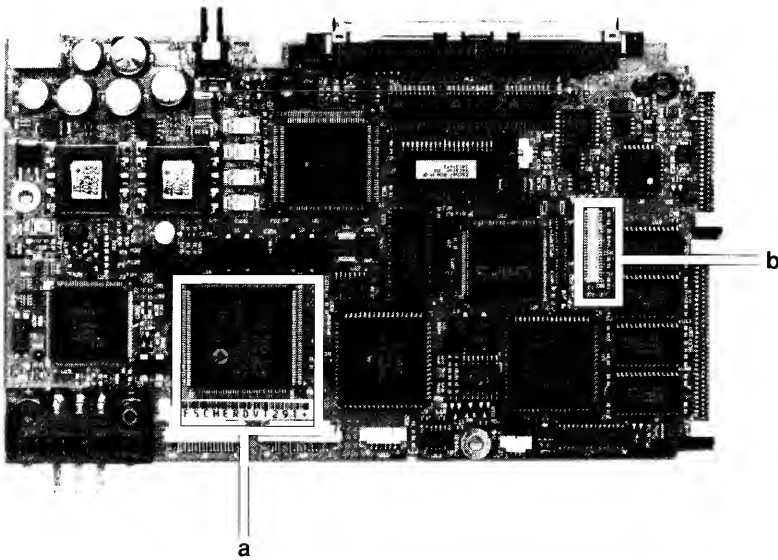
Macintosh Duo 210/230
Floppy Adapter

Apple P/N 661-1663



Macintosh Duo 270c Logic Board

Apple P/N 661-1717

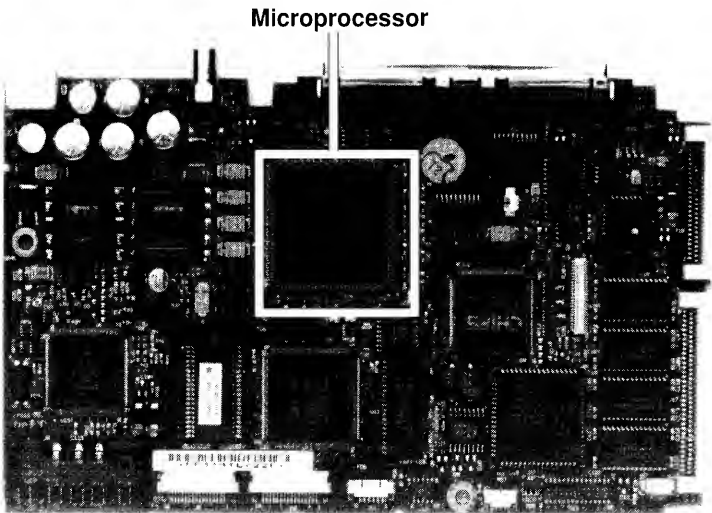


NOTE:

- a) The PowerBook Duo 270c has a 68882 math coprocessor on the logic board. The PowerBook 210/230/250 logic board does not.
- b) The PowerBook Duo 270c display connector is mounted vertically. The PowerBook Duo 210/230/250 display connector is mounted horizontally.

PowerBook Duo 280/280c Logic Board

Apple P/N 661-0051



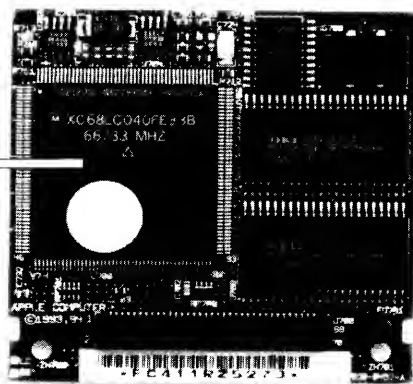
NOTE: This logic board has the part number "XC68LC040FE33B" printed on the microprocessor.

PowerBook 520/520c Daughterboard, 25 MHz, Rev. A

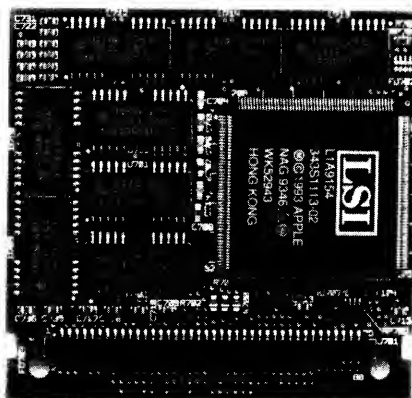
Apple P/N 661-0059

Top

Microprocessor



Bottom



NOTE: This logic board has the part number "XC68LC040FE25B" printed on the microprocessor.

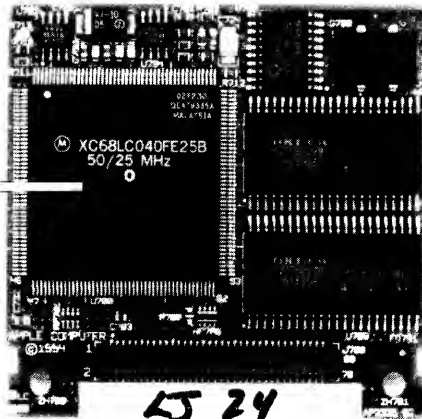
The PowerBook 520/520c Rev. A and Rev. B daughterboards are similar. You can identify the PowerBook 520/520c Rev. A daughterboard by the part number "Japan B004" printed on the 8 RAM IC located on the bottom side of the board.

PowerBook 520/520c
Daughterboard, 25 MHz, Rev. B

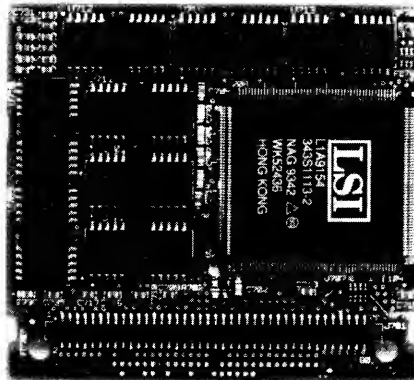
Apple P/N 661-0122

Top

Microprocessor



Bottom

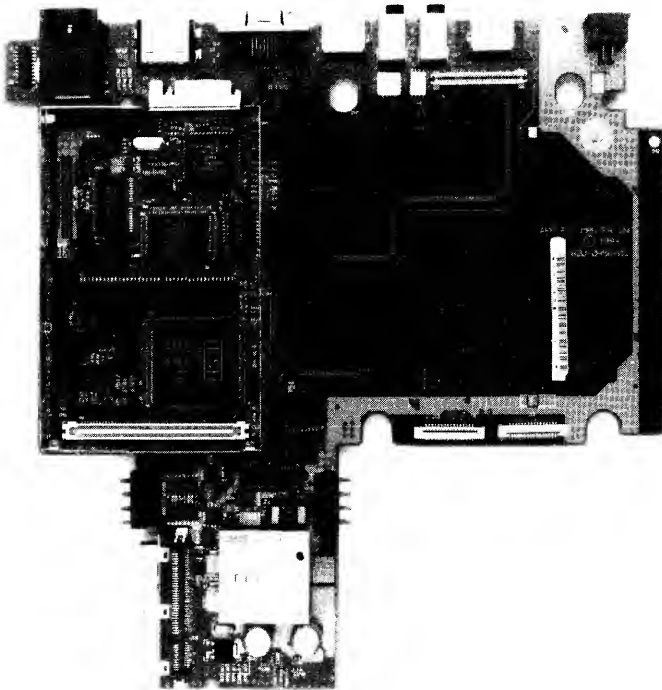


NOTE: This logic board has the part number "XC68LC040FE25B" printed on the microprocessor.

The PowerBook 520/520c Rev. A and Rev. B daughterboards are similar. You can identify the PowerBook 520/520c Rev. B daughterboard by the part number "Japan B002" printed on the 8 RAM IC located on the bottomside of the board.

PowerBook 520/540 Series Motherboard, Rev. A

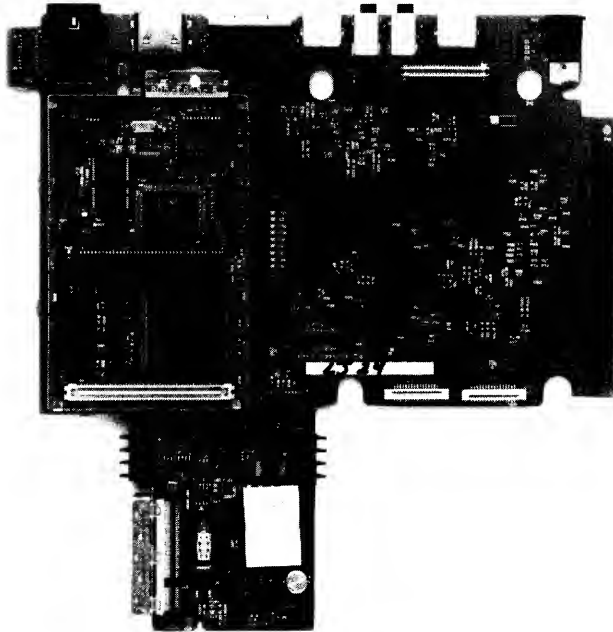
Apple P/N 661-0054



NOTE: The PowerBook 520/540 Series Rev. A and Rev. B motherboards are similar. The PowerBook 520/540 Series Rev. A motherboard does not have any components mounted in the area under the floppy drive. The PowerBook 520/540 Series Rev. B motherboard has multiple components mounted under the floppy drive.

PowerBook 520/540 Series Motherboard, Rev. B

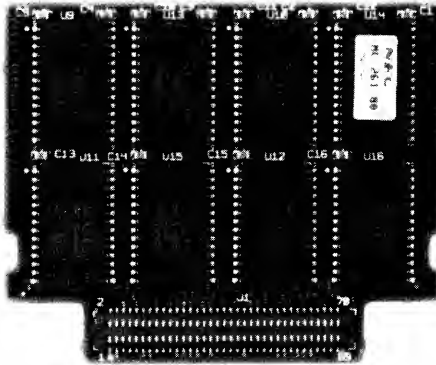
Apple P/N 661-0108



NOTE: The PowerBook 520/540 Series Rev. A and Rev. B motherboards are similar. The PowerBook 520/540 Series Rev. B motherboard has multiple components mounted in the area under the floppy drive. The PowerBook 520/540 Series Rev. A motherboard does not have any components mounted under the floppy drive.

PowerBook 520/540 Series
RAM Expansion, 8 MB

Apple P/N 661-0058

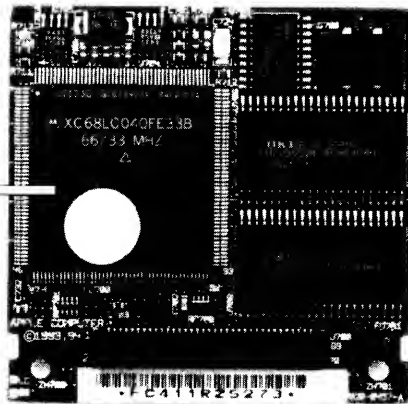


PowerBook 540/540c
Daughterboard, 33 MHz, Rev. A

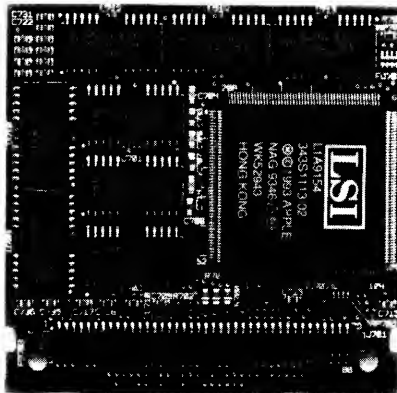
Apple P/N 661-0057

Top

Microprocessor



Bottom



NOTE: This logic board has the part number "XC68LC040FE33B" printed on the microprocessor.

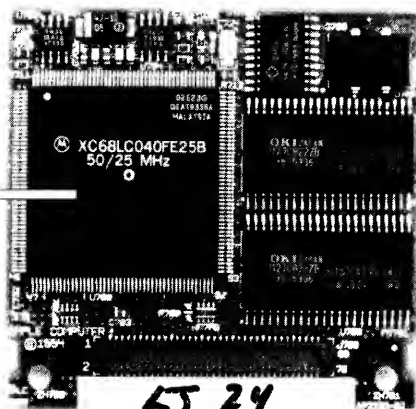
The PowerBook 540/540c Rev. A and Rev. B daughterboards are similar. You can identify the PowerBook 540/540c Rev. A daughterboard by the part number "Japan B004" printed on the 8 RAM IC located on the bottom side of the board.

PowerBook 540/540c Daughterboard, 33 MHz, Rev. B

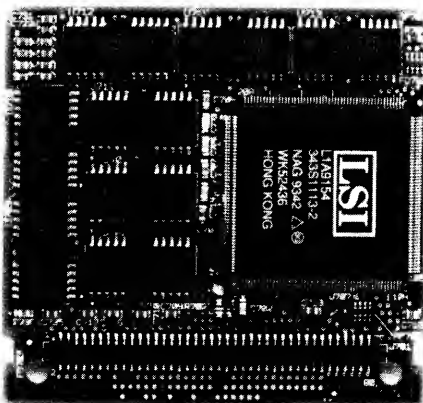
Apple P/N 661-0109

Top

Microprocessor



Bottom

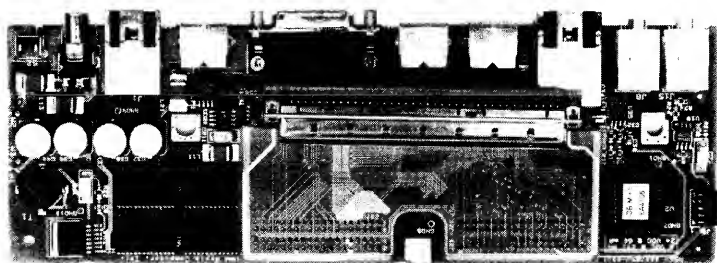


NOTE: This logic board has the part number "XC68LC040FE33B" printed on the microprocessor.

The PowerBook 540/540c Rev. A and Rev. B daughterboards are similar. You can identify the PowerBook 540/540c Rev. B daughterboard by the part number "Japan B002" printed on the 8 RAM IC located on the bottom side of the board.

Macintosh Expansion Bar, Mini Dock Logic Board with Flex Cable

Apple P/N 661-1664



NOTE: Return the logic board with the flex cable assembly.

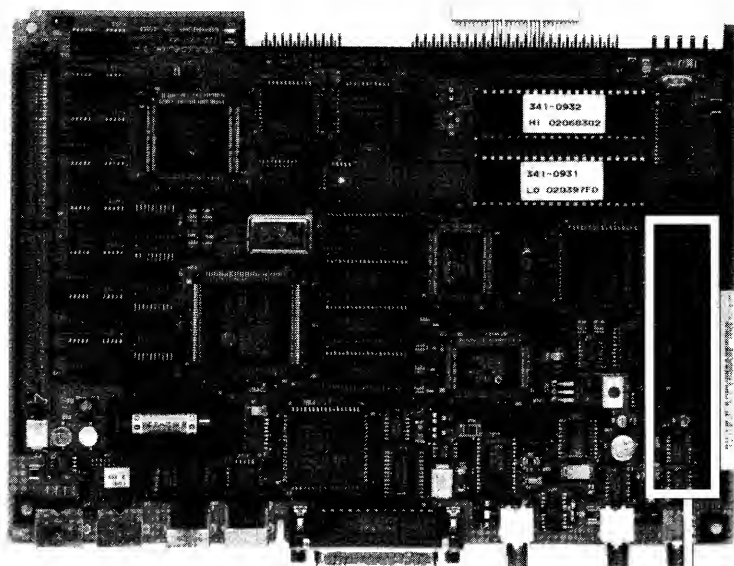
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3

Macintosh TV Logic Board

Apple P/N 661-1724



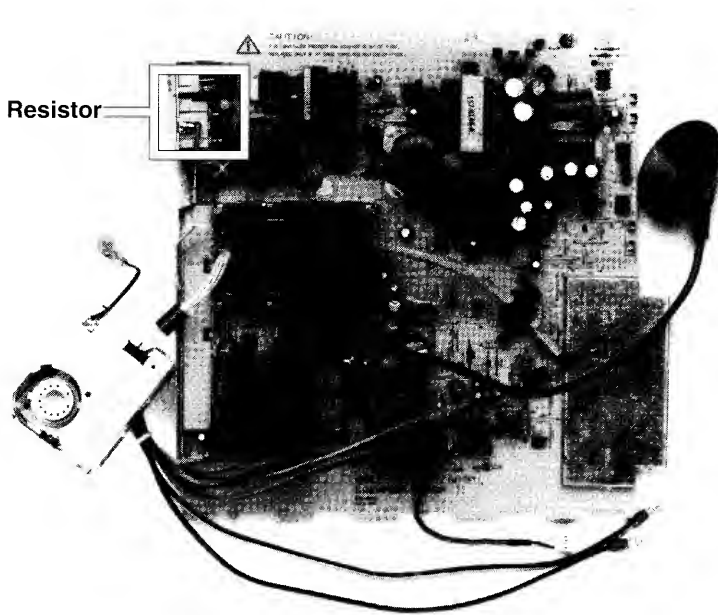
Tuner
PCB
Slot

NOTE: Return the Macintosh TV logic board without DRAM or VRAM SIMMs.

Remove the tuner printed circuit board before returning the logic board.

Macintosh TV Analog Board

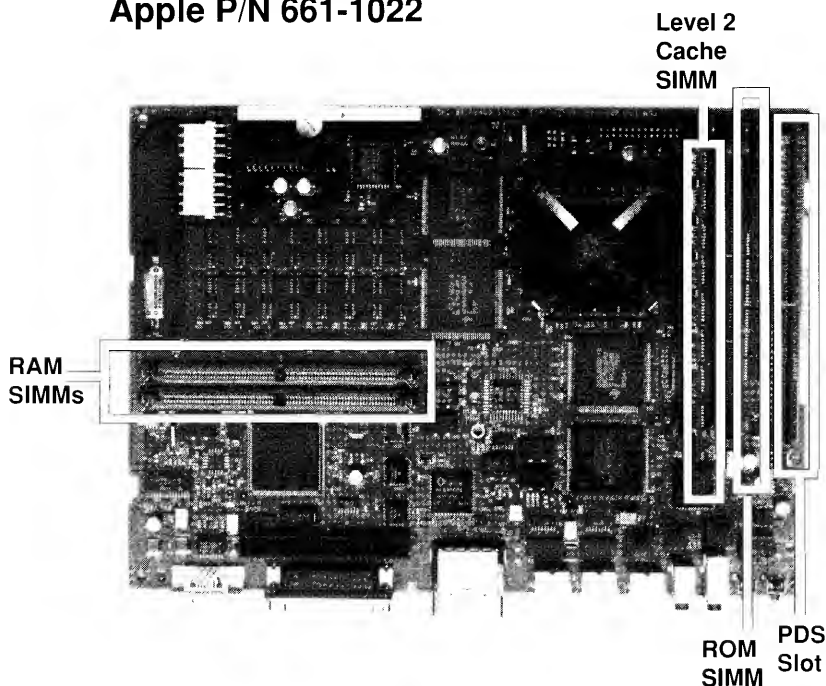
Apple P/N 661-0872



NOTE: The Macintosh LC 520 and the Macintosh TV analog boards look similar. The Macintosh TV analog board has a resistor soldered on the backside of the AC connector. The Macintosh LC 520 does not.

Power Macintosh 6100/60,
Workgroup Server 6150
Logic Board

Apple P/N 661-1022

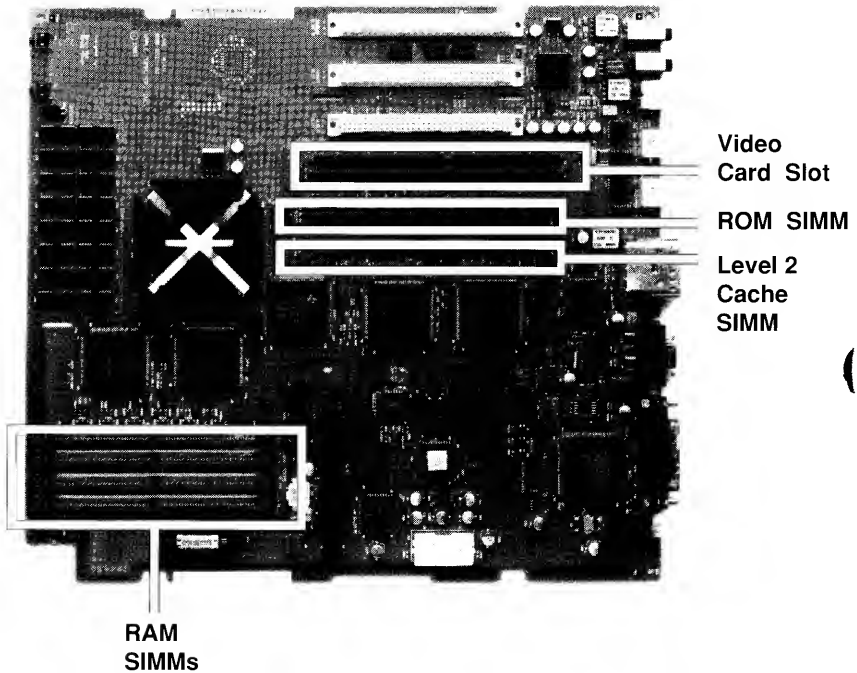


NOTE: Return the logic board without RAM SIMMS or a 256K Level 2 cache SIMM.

IMPORTANT: This logic board has a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board. The ROM SIMM may be located in the Level 2 cache connector. If both SIMMs sockets are occupied make sure to remove the 256K Level 2 cache SIMM.

Power Macintosh 7100/66 Logic Board

Apple P/N 661-0897

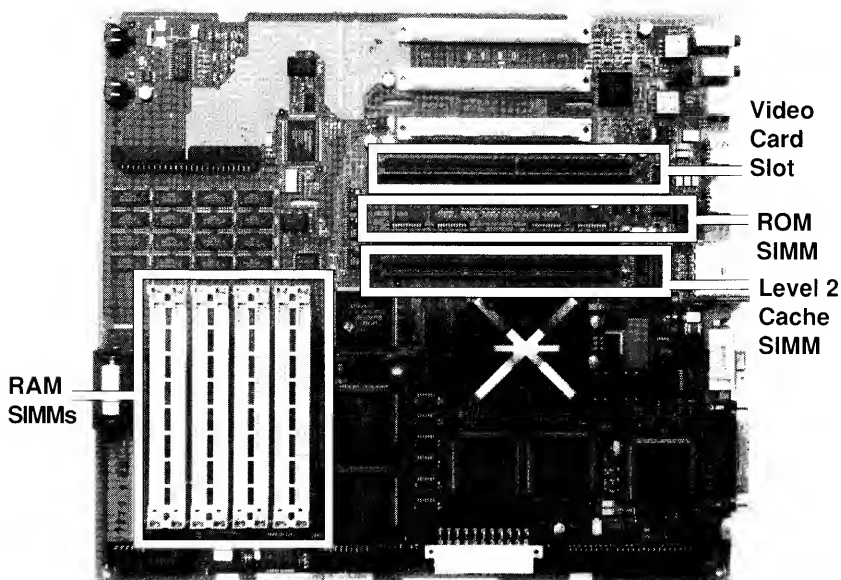


NOTE: Return the logic board without the following: 256K Level 2 cache SIMM, RAM SIMMs, and the PDS terminator board in the video card slot.

IMPORTANT: The Power Macintosh 7100/66 logic board has a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

Power Macintosh 8100/80,
Workgroup Server 8150
Logic Board

Apple P/N 661-1026



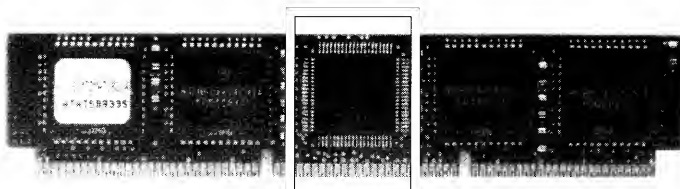
NOTE: Return the logic board without the following: 256K Level 2 cache SIMM, RAM SIMMs, and the PDS terminator board in the video card slot.

IMPORTANT: This logic board has a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

Power Macintosh 256K, SIMM, Cache

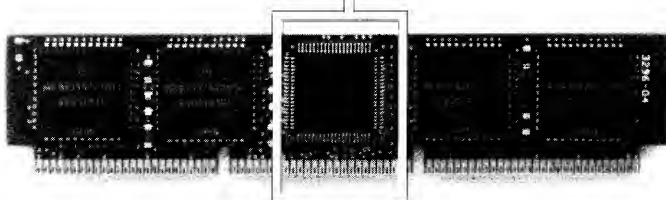
Apple P/N 661-1024

Top



This chip is not on the 512K cache SIMM.

Bottom



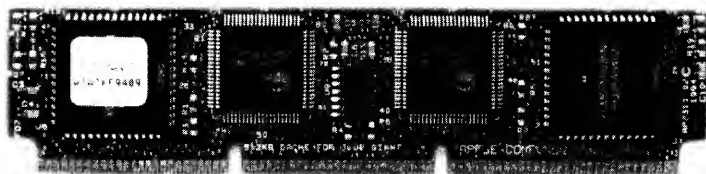
NOTE: The Power Macintosh 256K and 512K SIMM are similar. The 256K cache SIMM has five chips on each side that are approximately the same size. The 512K cache SIMM has four main chips on each side.

For additional SIMM information, refer to the Memory manual in *Service Source*.

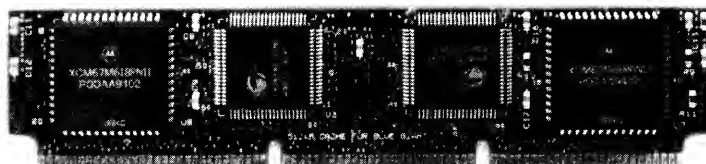
Power Macintosh
512K, SIMM, Cache

Apple P/N 661-0131

Top



Bottom



NOTE: The Power Macintosh 512K and 256K cache SIMMs are similar. The 256K cache has five chips on each side. The 512K cache SIMM has four main chips on each side.

For additional SIMM information, refer to the Memory manual in *Service Source*.

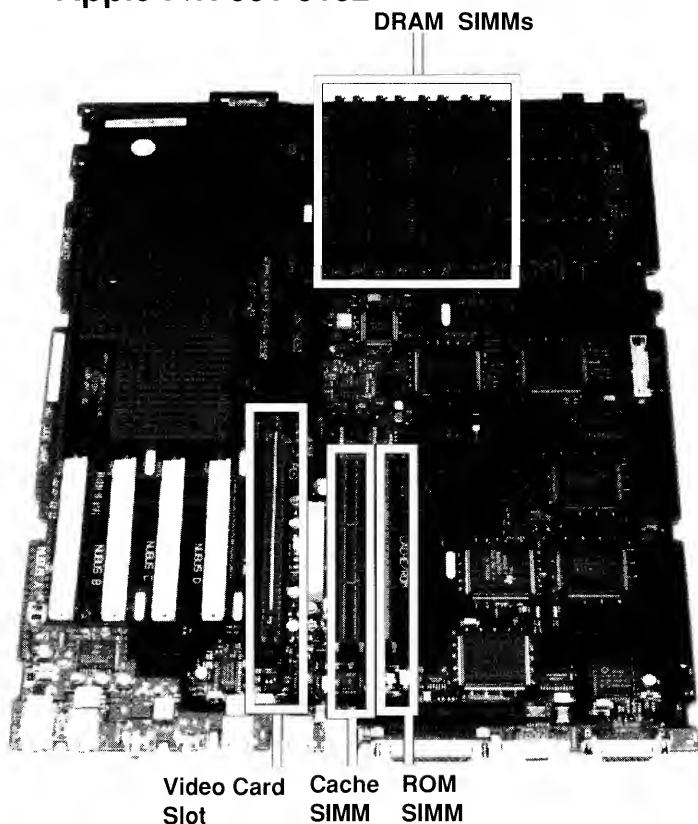
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Workgroup Server 9150 Logic Board

Apple P/N 661-0132



NOTE: Return the Workgroup Server 9150 logic board WITH the following components:

- Video card slot terminator board
- ROM SIMM

Return the logic board WITHOUT the following components:

- RAM SIMMs
- Cache SIMM

IMPORTANT: The Workgroup Server 9150 logic board has a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

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Keyboards

Macintosh Plus
Keyboard with Cable

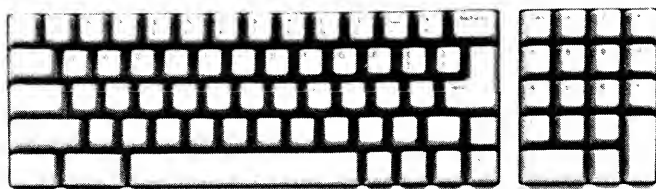
Apple P/N 661-0322 (Beige)

Apple P/N 661-0322 B/C/D/F/E/J/S/T

(When you return P/N 661-0322, Apple ships you P/N 661-0416.)

Apple P/N 661-0416 (Platinum)

Apple P/N 661-0416 B/C/D/F/E/S/T/C



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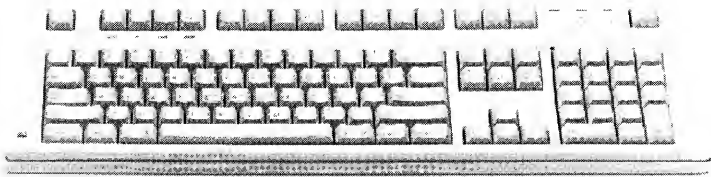
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**Apple
Extended Keyboard**

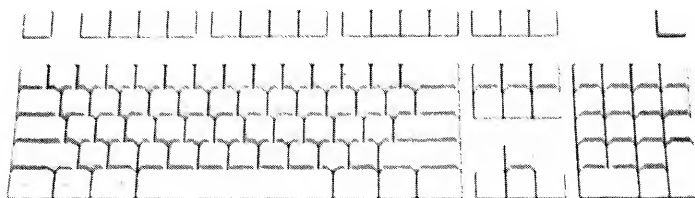
Apple P/N 661-0384

Apple P/N 661-0384 B/D/F/E/S/T



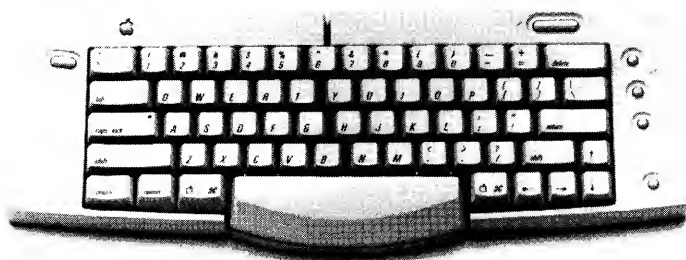
Apple
Extended Keyboard II

Apple P/N 661-0543
Apple P/N 661-0544 D/F/E/T/C



Apple
Adjustable Keyboard

Apple P/N 661-0731



Apple Keyboard

Apple P/N 661-0383

Apple P/N 661-0383 B/D/E/F/S/T

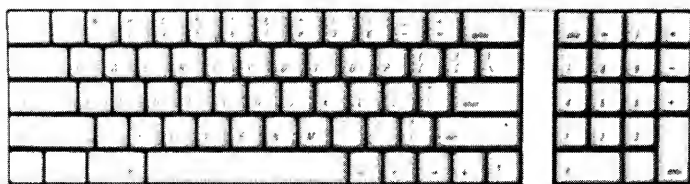
(When you return P/N 661-0383, Apple ships you P/N 661-0603.)



NOTE: Remove the cable before returning the keyboard to Apple.

Apple
Keyboard II

Apple P/N 661-0603



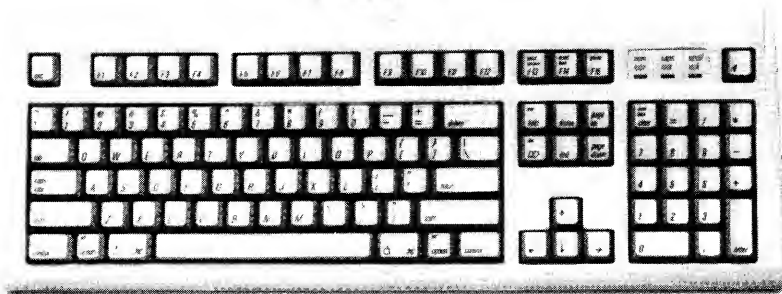
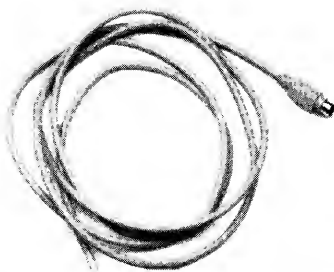
NOTE: Remove the cable before returning the keyboard to Apple.

Apple

AppleDesigned Keyboard (with cable attached)

Apple P/N 661-0310

Apple P/N 661-0310 B/D/F/E/S/T



NOTE: Return the AppleDesigned keyboard WITH the cable attached.

Macintosh Portable Keyboard

Apple P/N 661-0476

Apple P/N 661-0476 B/C/D/E/F/S/T



NOTE: The Macintosh Portable keyboard comes in two versions: the original keyboard (661-0476) has a steel mounting plate with a silver finish. The new keyboard (661-1612) has an aluminum mounting plate with a black finish. Also, the keyswitches are different and have a different feel. When replacing a keyboard, order the replacement module with the same mounting plate as the defective keyboard.

Macintosh Portable Lightweight Keyboard

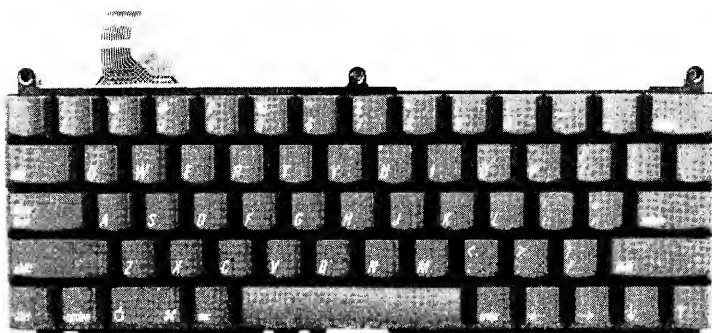
Apple P/N 661-1612



NOTE: The Macintosh Portable keyboard comes in two versions: the original keyboard (661-0476) has a steel mounting plate with a silver finish. The new keyboard (661-1612) has an aluminum mounting plate with a black finish. Also, the keyswitches are different and have a different feel. When replacing a keyboard, order the replacement module with the same mounting plate as the defective keyboard.

PowerBook 100
Keyboard

Apple P/N 661-0713
Apple P/N 661-0713 C/E/J/Z



PowerBook 140/145/160/165/165c/170/180 Keyboard

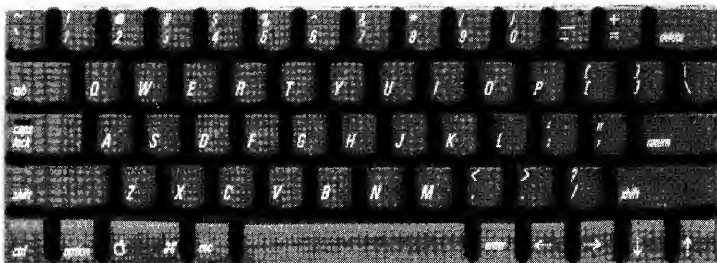
Apple P/N 661-0712

Apple P/N 661-0712 B/C/D/E/F/S/T



**PowerBook Duo 210/230/250/270c
Keyboard, US, Rev. C**

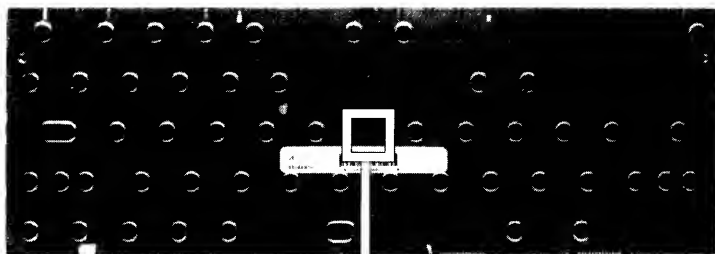
Apple P/N 661-1652



NOTE: The PowerBook Duo US keyboard, Rev. C (661-1652) and the PowerBook Duo US keyboard, Rev. D (661-1608) are similar. The Rev. D keyboard has a support pin in the center of the back of the keyboard; P/N 661-1652 does not have a pin.

PowerBook Duo 280/280c Keyboard, US, Rev. D

Apple P/N 661-1608

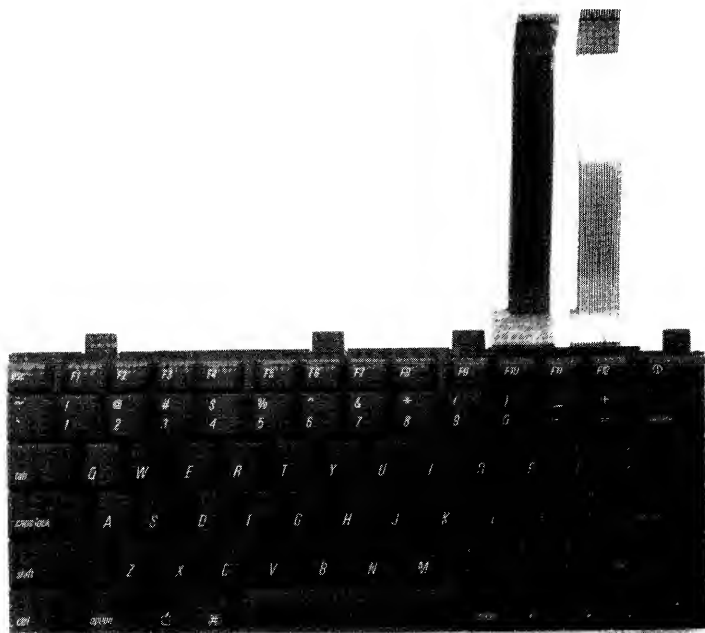


support pin

NOTE: The PowerBook Duo US keyboard (661-1652) and the PowerBook Duo US Rev. D keyboard (661-1608) are similar. The Rev. D keyboard has a support pin in the center of the back of the keyboard; P/N 661-1652 does not have a pin.

**PowerBook 520/540 Series
Keyboard, US**

Apple P/N 661-0037



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Macintosh TV Keyboard II

Apple P/N 661-1722



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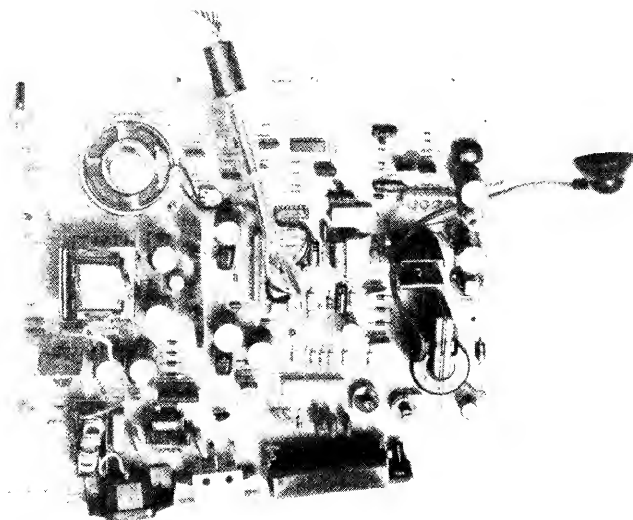
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Power Supplies

**Macintosh
Power Supply (110 V)**

**Apple P/N 661-0461 (Beige Switch)
Apple P/N 661-0462 (Platinum Switch)**

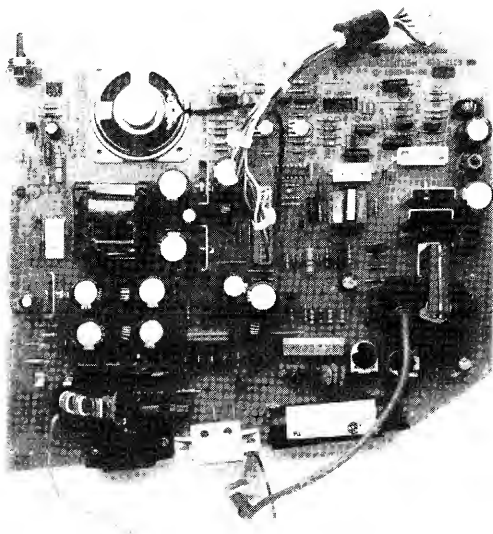


NOTE: Return the power-supply-to-logic-board cable to Apple with defective board. Keep the brightness knob and battery with the customer's replacement board.

The previous service module P/N 661-76153 contained a beige or a platinum switch. P/Ns 661-0461 and 661-04 62, which specify switch color, replace P/N 661-76153.

Macintosh
Power Sweep Board (220 V)

Apple P/N 661-76214

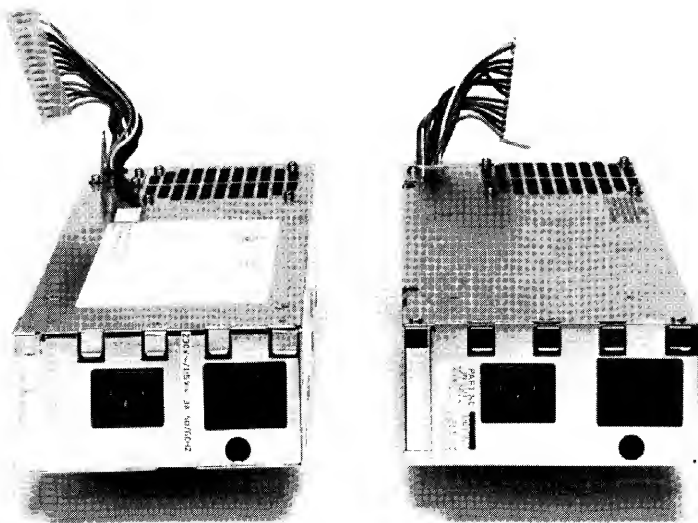


NOTE: Return the power-supply-to-logic-board cable to Apple with the defective board. Keep the brightness knob and battery with the customer's replacement board.

Macintosh II/IIx Power Supply

Apple P/N 661-0375

Apple P/N 661-0542



NOTE: The Macintosh II/IIx power supplies have the following assembly part numbers on the module label:

Apple P/N 661-0375 = Assembly P/N 699-0389

Apple P/N 661-0542 = Assembly P/N 699-0393

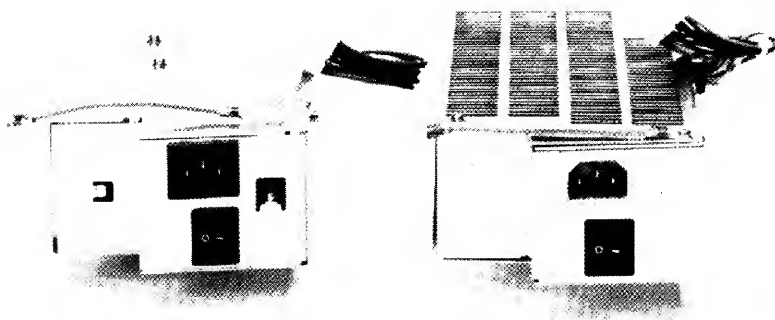
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Macintosh SE and SE/30 Power Supply

Apple P/N 661-0370



NOTE: The Macintosh SE and SE/30 power supply has assembly part number 699-5047 on the module label.

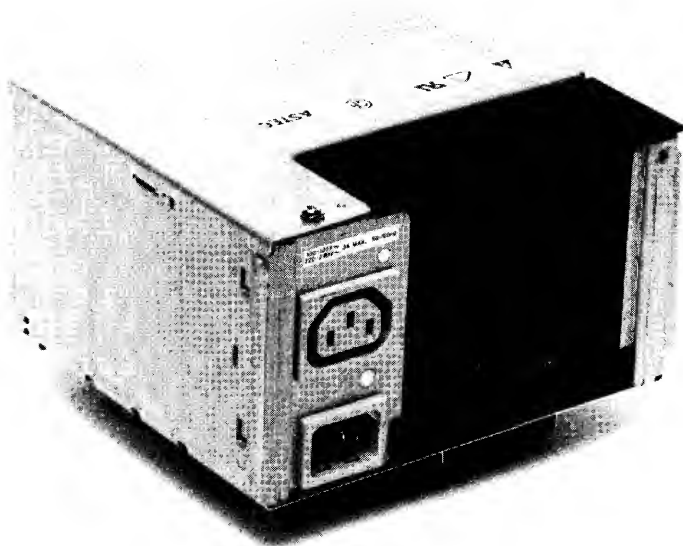
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Macintosh Ilcx/Ilci Power Supply

Apple P/N 661-0467



NOTE: Return power supply module with the fan installed.

The Macintosh Ilcx/Ilci power supply has assembly part numbers 699-0392 or 614-0004 on the module label.

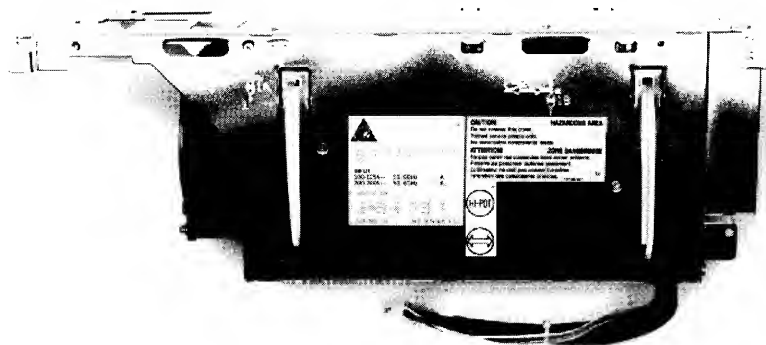
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Macintosh Quadra 900/950 Power Supply

Apple P/N 661-0664



NOTE: The Macintosh Quadra 900/950 power supply has the assembly part number 699-0394 on the module label.

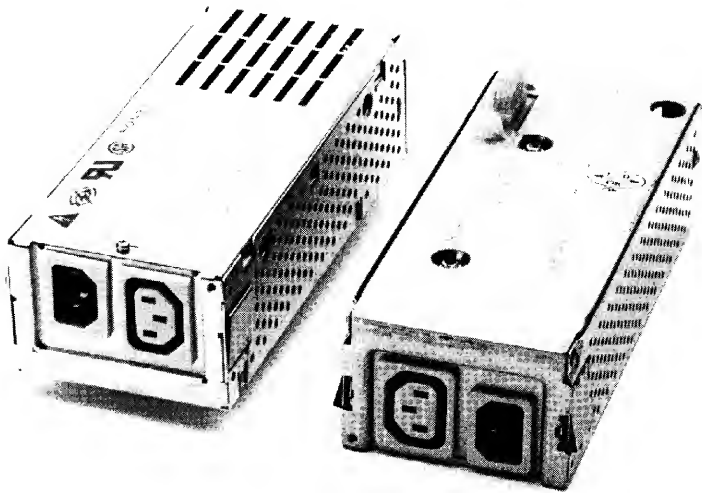
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Macintosh IIsi Power Supply

Apple P/N 661-1616



NOTE: The Macintosh IIsi power supply has the assembly part number 699-0567 on the module label.

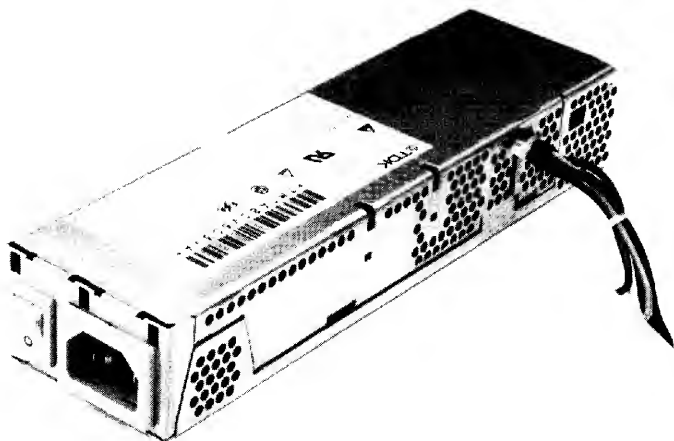
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Macintosh LC/LC II Power Supply

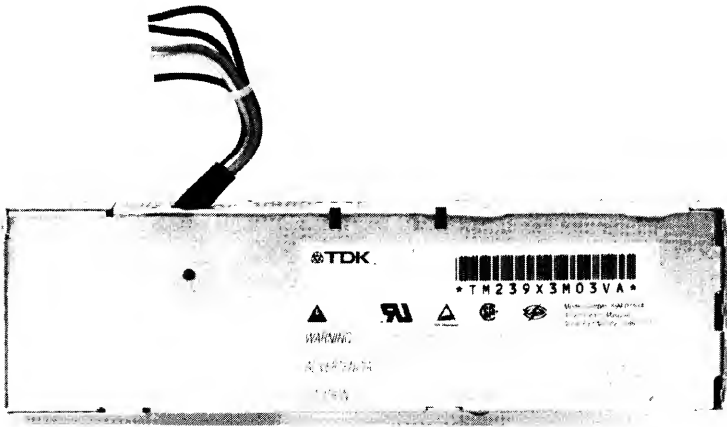
Apple P/N 661-0594



NOTE: The Macintosh LC/LC II power supply has the assembly part number 699-0153 on the module label.

Macintosh LC III, Performa 400 Series Power Supply

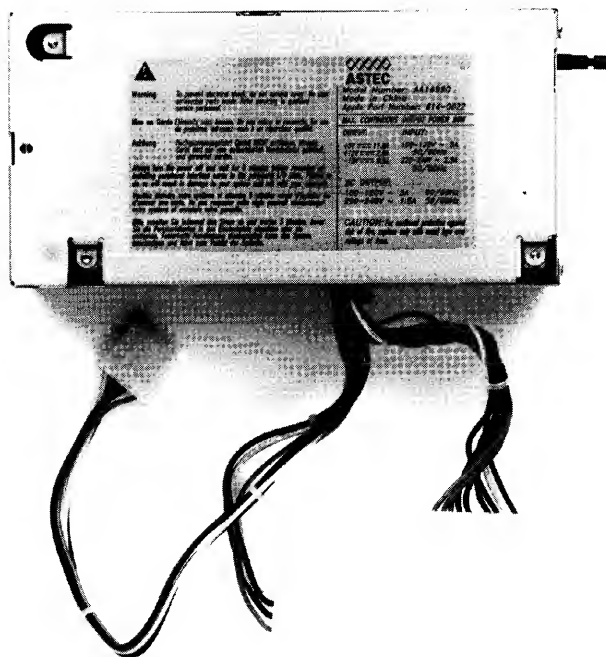
Apple P/N 661-0787



NOTE: This power supply has the assembly part number 614-0003 on the module label.

Macintosh Power Supply, 86 Watt

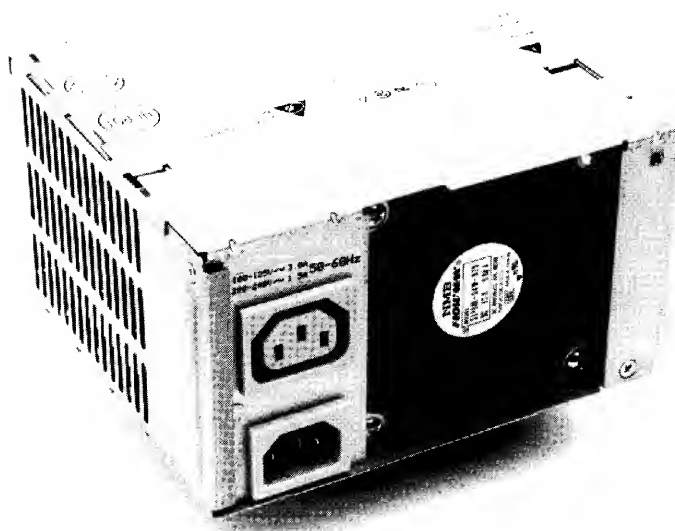
Apple P/N 661-1688



NOTE: The Macintosh 86 watt power supply has the assembly part number 614-0022 on the module label.

Macintosh
Power Supply, 112 Watt

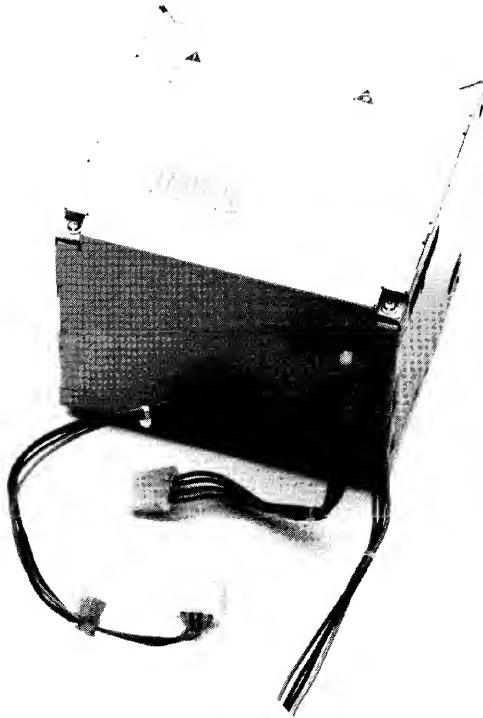
Apple P/N 661-0758



NOTE: The Macintosh 112 watt power supply has the assembly part number 614-0009 on the module label.

Macintosh
Power Supply, 200 Watt

Apple P/N 661-1687



NOTE: The Macintosh 200 watt power supply has the assembly part number 614-0012 on the module label.

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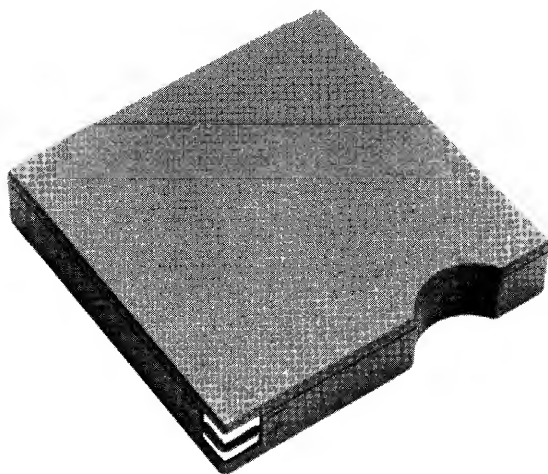
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**PowerBook 140/170
Battery Assembly**

Apple P/N 661-0721

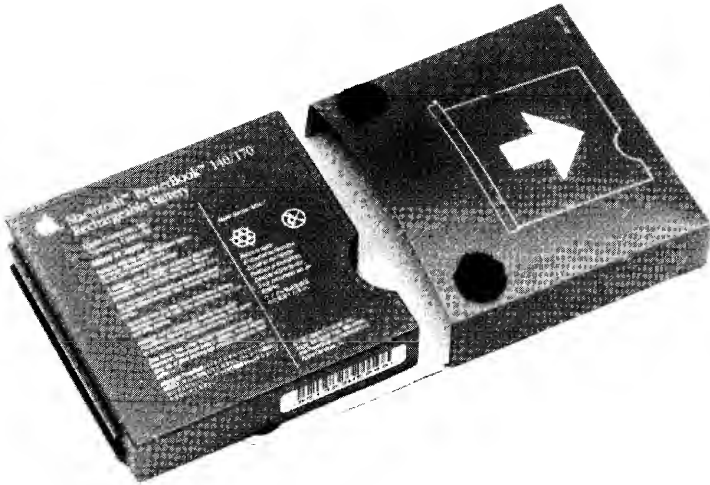
(When you return P/N 661-0721, Apple ships you P/N 661-0789.)



PowerBook 140/145/170 Battery Assembly, 2.5 Amp

Apple P/N 661-0754

(When you return P/N 661-0754, Apple ships you P/N 661-0789)



NOTE: Apple ships the battery in a protective case; you can return the battery to Apple without its protective case.

PowerBook 140/145/145B/160/165/170/180 Battery Assembly, 2.8 Amp

Apple P/N 661-0789



NOTE: Apple ships the battery in a protective case; you can return the battery to Apple without its protective case.

PowerBook 140/145/145B/160/165/165c/170/
180/180c

Battery Assembly, 2.9 Amp

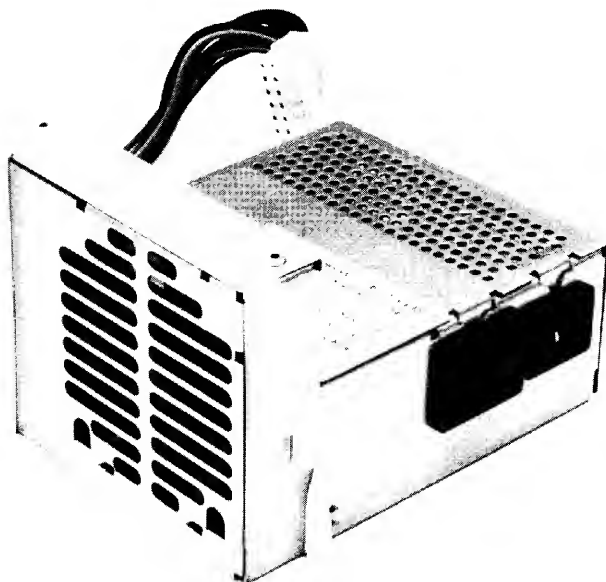
Apple P/N 661-0013



NOTE: Apple ships the battery in a protective case; you can return the battery to Apple without its protective case.

Macintosh Duo Dock Power Supply

Apple P/N 661-1660



NOTE: The Macintosh Duo Dock power supply has the assembly part number 614-0005 on the module label.

PowerBook Duo 210/230/250/270c
Battery Assembly with Door

Apple P/N 661-1656



PowerBook Duo 210/230/250/270c NiMH Battery Assembly with Door

Apple P/N 661-1735



NOTE: The PowerBook 210/230/250/270c NiMH battery assembly has the number "2" on the battery label.

The battery locking button is built into the NiMH battery.

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PowerBook 520/540 Series Battery

Apple P/N 661-0055



NOTE: Return the battery WITH the contact cover in place and covering the battery contacts.

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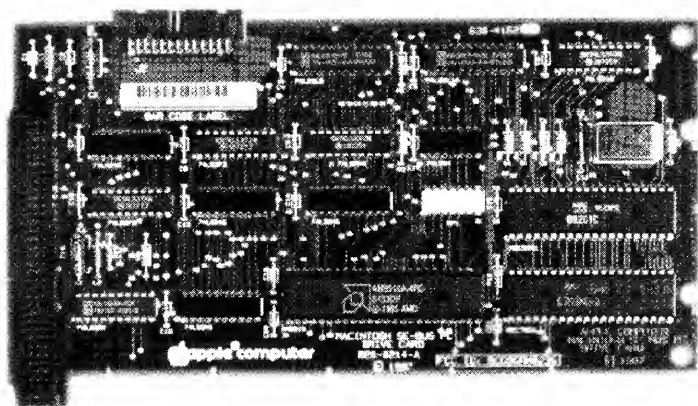
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Interface Cards

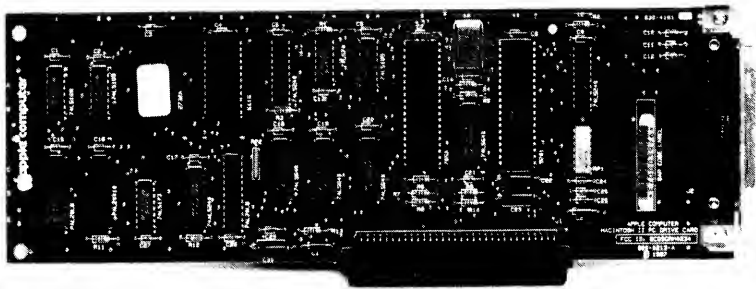
Macintosh SE
Mac SE-Bus PC Drive Card

Apple P/N 661-0406



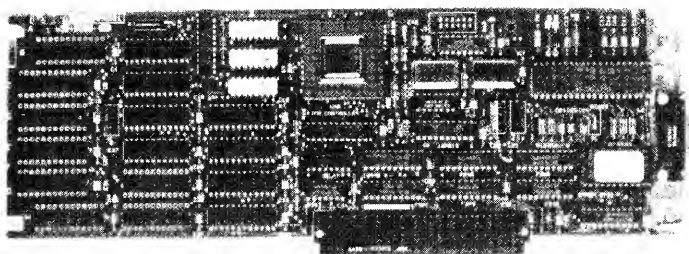
Macintosh II
Mac II PC Drive Card

Apple P/N 661-0407



**Macintosh II
Video Card (4-Bit Soldered Version)**

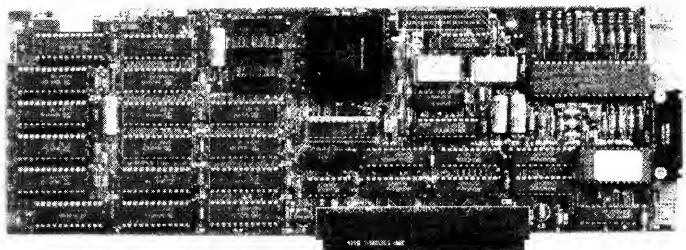
Apple P/N 661-0376



NOTE: Remove the eight video expansion RAM chips before you return the video card to Apple.

Macintosh II Video Card (8-Bit Soldered Version)

Apple P/N 661-0492

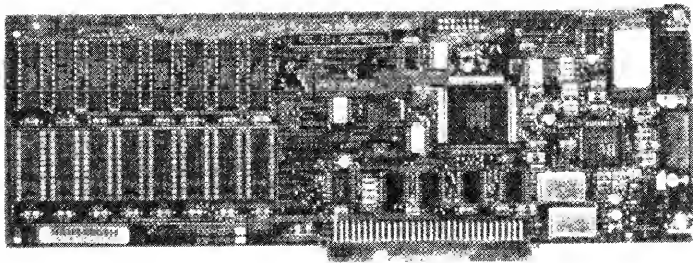


NOTE: This card has eight video expansion RAM chips soldered to the board. Do not attempt to remove them before returning the video card to Apple.

Macintosh II

**High-Resolution Display Video Card
(4-Bit Soldered Version)**

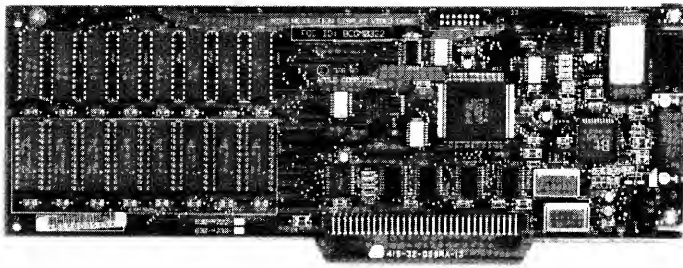
Apple P/N 661-0493



NOTE: Remove the eight video expansion RAM chips before returning the video card to Apple.

Macintosh II
**Extended High-Resolution Display Video Card
(8-Bit Soldered Version)**

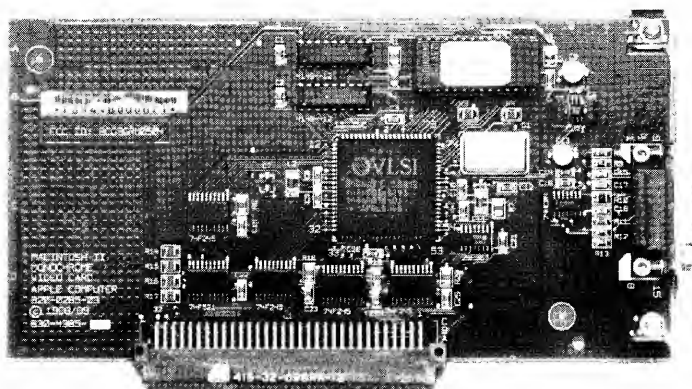
Apple P/N 661-0533



NOTE: This card has eight video expansion RAM chips soldered to the board. Do not attempt to remove them before returning the video card to Apple.

Macintosh II
Monochrome Video Card (1-Bit)

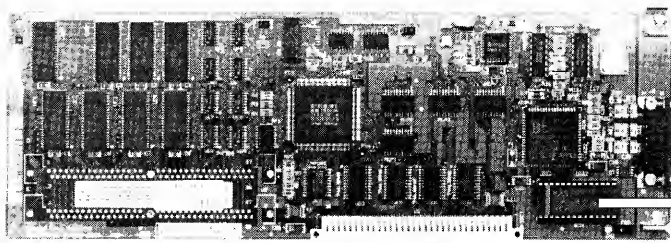
Apple P/N 661-0518



Macintosh II Display Card 8•24

Apple P/N 661-0608

(When you return P/N 661-0608, Apple ships you P/N 661-0678.)

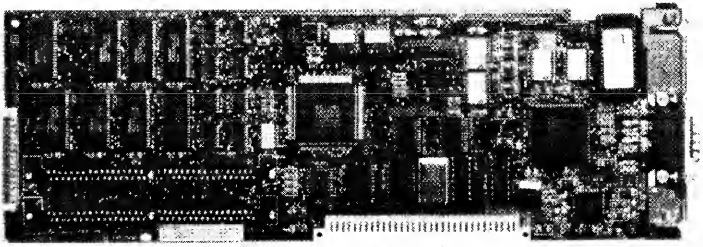


See Note

NOTE: You can distinguish P/N 661-0608 from P/N 661-0678 by the ROM part number (661-0678 has ROM P/N 341-0868). You can upgrade 661-0608 to 661-0678 via a ROM upgrade. See the CPU price pages under P/N 076-0548 (Display Card 661-0607/661-0608 ROM upgrade). The ROM (P/N 341-0868) provides page-white color correction for the Macintosh 21-Inch Color Display. The Macintosh 16-Inch Color Display requires the ROM upgrade.

Macintosh II
Display Card 8•24

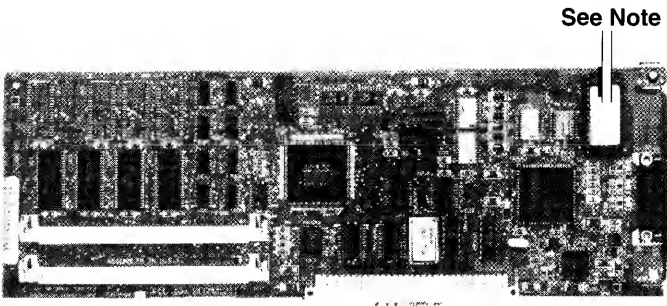
Apple P/N 661-0678



Macintosh II Display Card 4•8

Apple P/N 661-0607

(When you return P/N 661-0607, Apple ships you P/N 661-0677.)

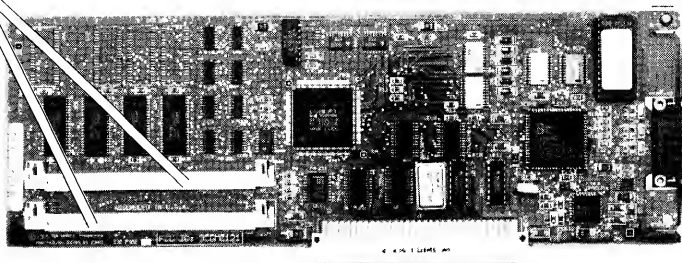


NOTE: You can distinguish P/N 661-0607 from P/N 661-0677 by the ROM part number (661-0677 has ROM P/N 341-0868). You can upgrade P/N 661-0607 to 661-0677 via a ROM upgrade. See the CPU price pages under P/N 076-0548 (Display Card 661-0607/661-0608 ROM upgrade). The ROM (P/N 341-0868) provides page-white color correction for the Macintosh 21-Inch Color Display.

Macintosh II Display Card 4•8

Apple P/N 661-0677

See Note

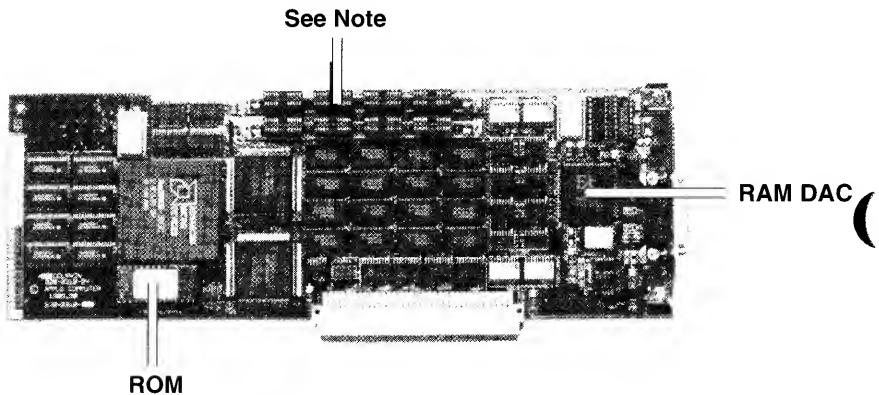


NOTE: You can upgrade P/N 661-0677 to P/N 661-0678 (Display Card 8•24) by installing two VRAM SIMMs P/N 661-0609 (VRAM SIMM, 256K, 100 ns).

Remove the VRAM SIMMs before you return the display card to Apple.

Macintosh II Display Card 8•24GC

Apple P/N 661-0606
Apple P/N 661-1642

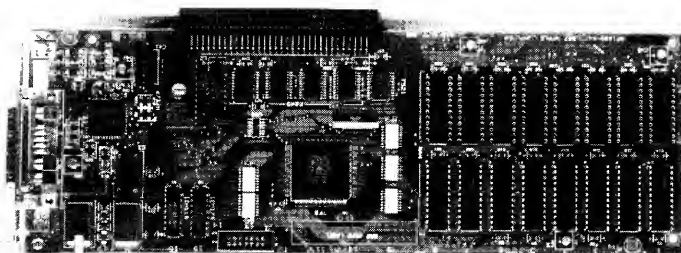


NOTE: Remove the two 1 MB video expansion SIMMs before you return the display card to Apple.

P/N 661-0606 has ROM P/N 341-0812 and RAM DAC P/N 357S0010. P/N 661-1642 has ROM P/N 341-0266 and RAM DAC P/N 343S1075. You can upgrade P/N 661-0606 to support the Macintosh 16" Color Display by installing a ROM upgrade. See the Mac II CPU price pages under P/N 076-1019 (Display Card 661-0606 ROM upgrade).

Macintosh II
Two-Page Monochrome Video Card

Apple P/N 661-0456

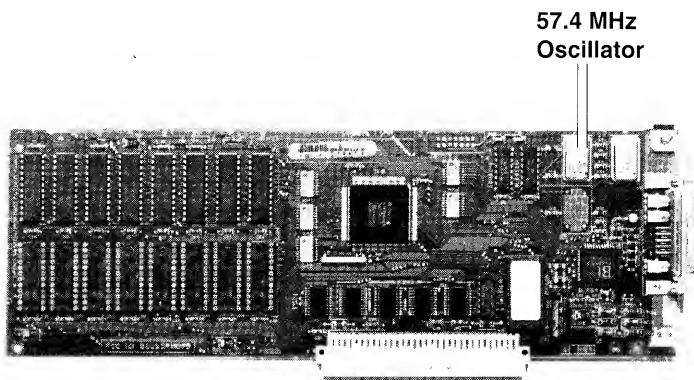


**100 MHz
Oscillator**

NOTE: Remove the eight video expansion RAM chips before you return the video card to Apple.

Macintosh II Portrait Display Video Card

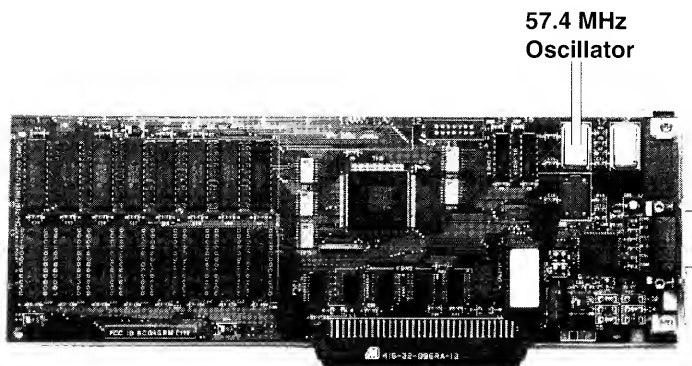
Apple P/N 661-0604



NOTE: Remove the eight video expansion RAM chips before returning the video card to Apple. P/N 661-0604 is a DB-25 (13-pin mixed connector) card.

Macintosh II Portrait Display Video Card

Apple P/N 661-0586 w/o cable
Apple P/N 661-0587 w/ cable



NOTE: P/N 661-0587 includes a DA-15 version of card (P/N 661-0586) and a DA-15-to-DB-25 cable (P/N 590-0615).

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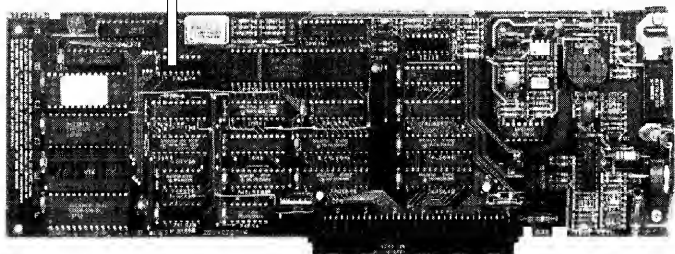
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Macintosh II
Apple EtherTalk Card (Rev. A-K)

Apple P/N 661-0414

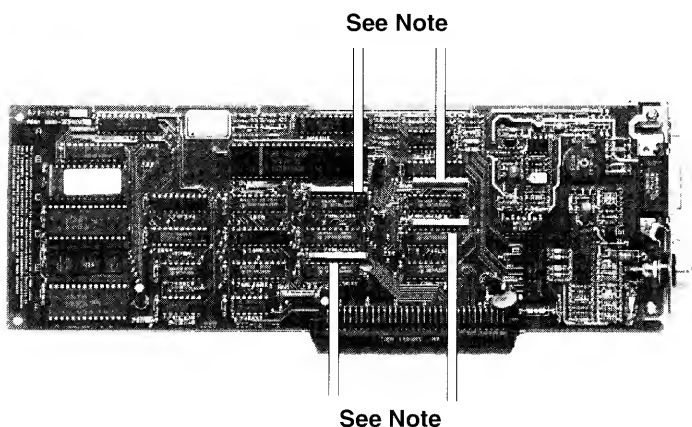
See Note



NOTE: An integrated circuit will be in this location.

Macintosh II
Apple EtherTalk NB Card

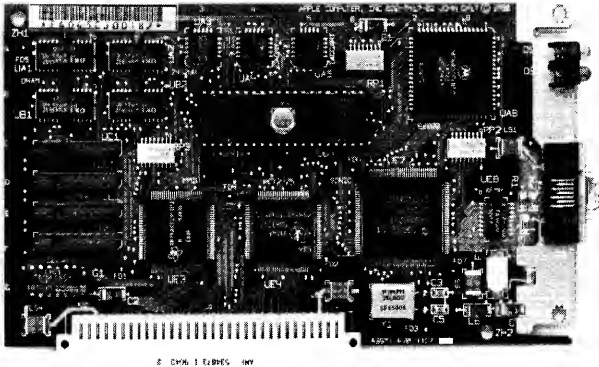
Apple P/N 661-0496



NOTE: Resistor packs will be in these locations.

Macintosh II Apple Ethernet NB Card

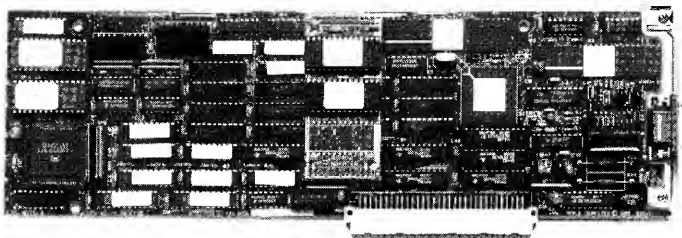
Apple P/N 661-0619



NOTE: Remove the RAM chips before you return the Apple Ethernet NB Card to Apple.

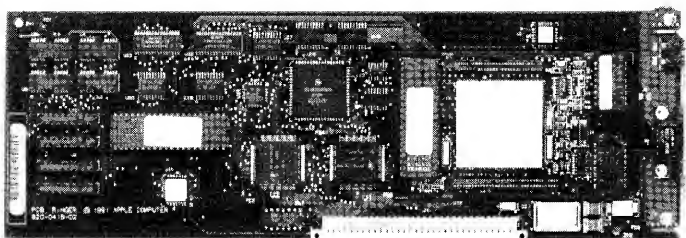
Macintosh II
Apple TokenTalk NB Card

Apple P/N 661-0460



Macintosh II
Token Ring 4/16 NB Card

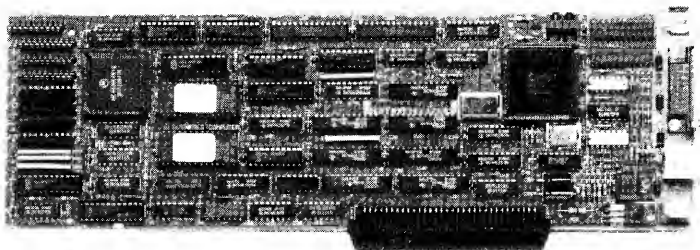
Apple P/N 661-1617



NOTE: Remove the RAM chips before you return the Token Ring 4/16 NB Card to Apple.

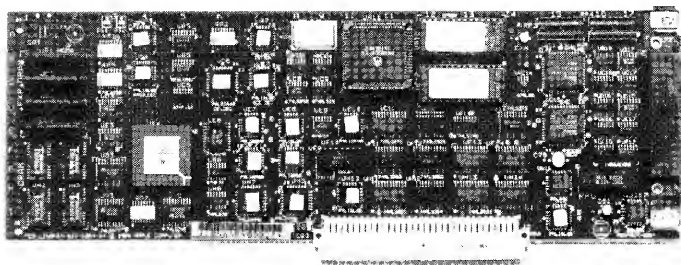
Macintosh II
Apple Coax/Twinax Card

Apple P/N 661-0458



Macintosh II
Apple Serial NB Card

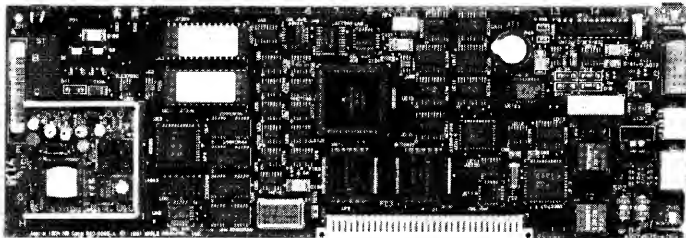
Apple P/N 661-0517



NOTE: Remove the RAM chips before you return the Apple Serial NB Card to Apple.

Macintosh II ISDN NB Card

Apple P/N 661-0620



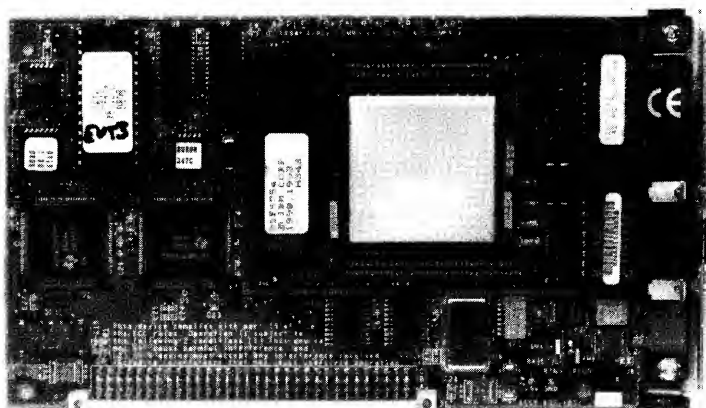
)



Macintosh

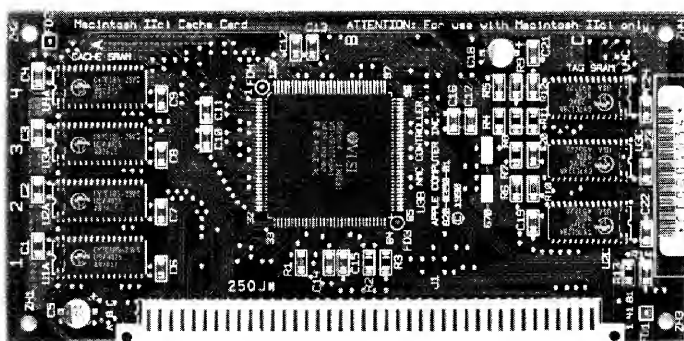
Apple Token Ring NB/c Card, 7"

Apple P/N 661-0136



Macintosh IIci Cache Card

Apple P/N 661-1602

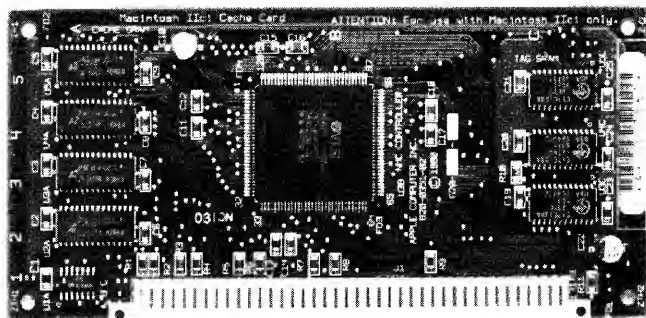


NOTE: The Macintosh IIci Cache cards containing serial numbers with a "CF" prefix—that is, CFXXXXXXX—can cause frequent system crashes. Return these cards to Apple. For additional information, see AppleLink under the *AppleLink Programs* icon.

See P/N 661-1619 if the card has a serial number with an "AF" prefix.

Macintosh IIci Cache Card, Revised

Apple P/N 661-1619

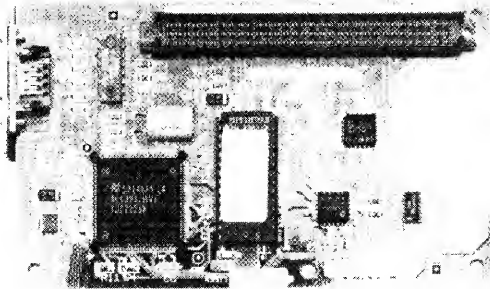


NOTE: See P/N 661-1602 if the card has a serial number with a "CF" prefix.

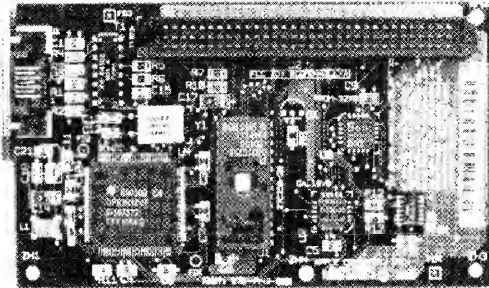
Macintosh LC/LC II Apple Ethernet LC Card

Apple P/N 661-0621

a



b

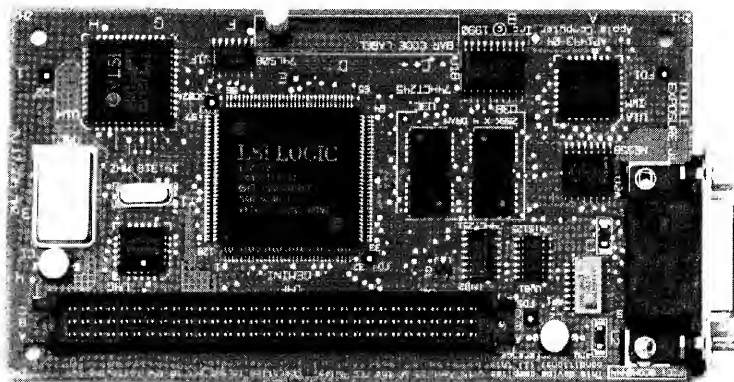


NOTE:

- a) This version of the card uses 341-4070 ROM with the 670-2008 board assembly. This ROM was introduced in March 1992.
- b) The older version of the card uses 341-0842 ROM with the 670-4443 board assembly.

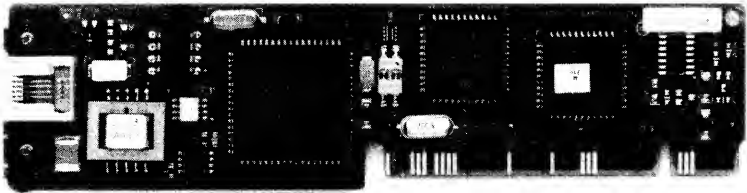
Macintosh LC/LC II Apple IIe Card

Apple P/N 661-0595



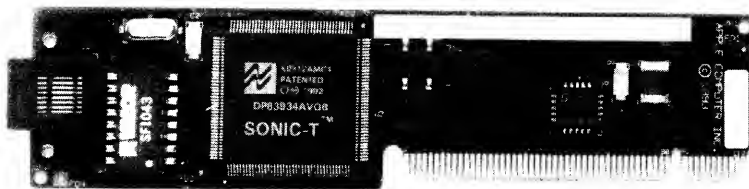
Macintosh LC 575
Express Modem, 14.4 Baud, Comm Slot

Apple P/N 661-0887



Macintosh LC 575
Ethernet Card, 10 Base-T, Comm Slot

Apple P/N 661-0888



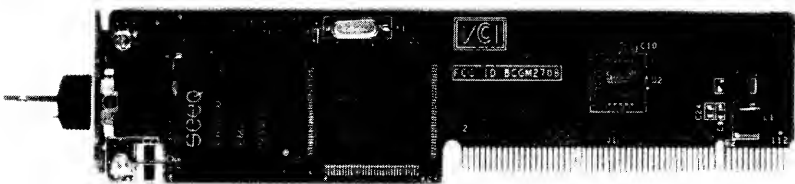
Macintosh LC 575
Ethernet Card, AAUI, Comm Slot

Apple P/N 661-0889



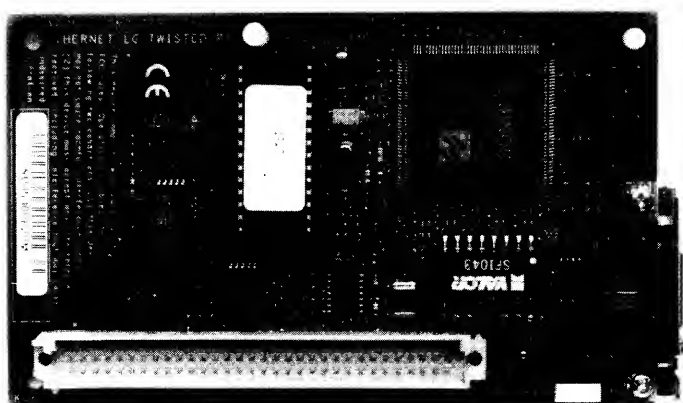
Macintosh LC 575
Ethernet Card, Thin-net, Comm Slot

Apple P/N 661-0036



Macintosh LC/LCII
Apple Ethernet LC Twisted Pair Card

Apple P/N 661-0226

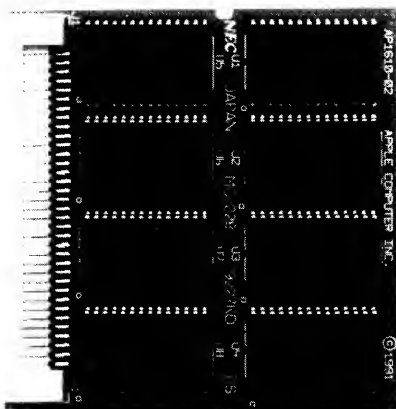




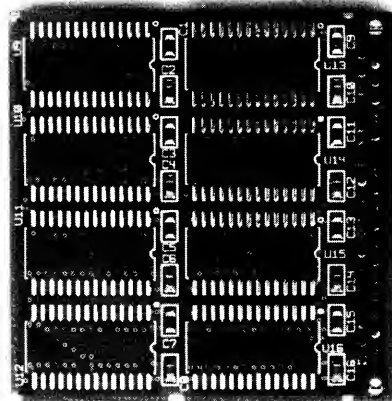
PowerBook Duo 210/230
4 MB DRAM Card

Apple P/N 661-1659

Front



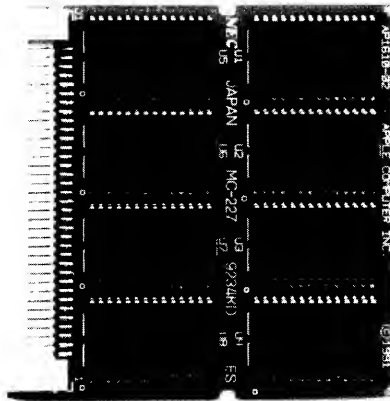
Back



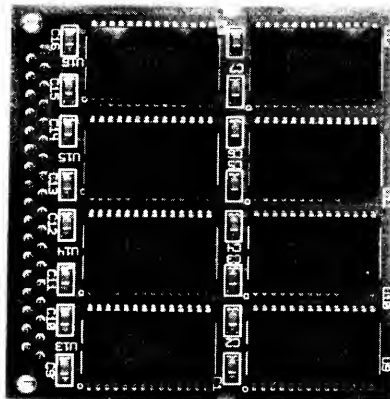
PowerBook Duo 210/230 8 MB DRAM Card

Apple P/N 661-1658

Front

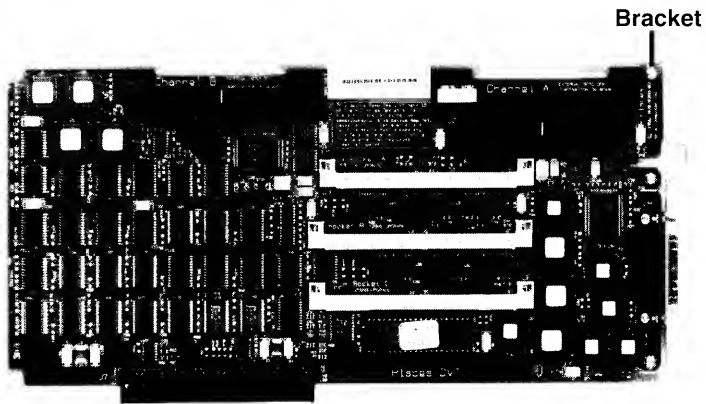


Back



Apple Workgroup Server 95 PDS Card

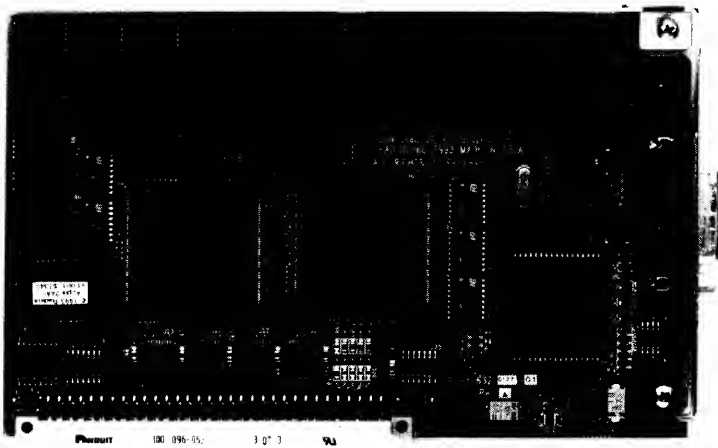
Apple P/N 661-0794



NOTE: You can return the Apple Workgroup Server 95 PDS card with or without the bracket.

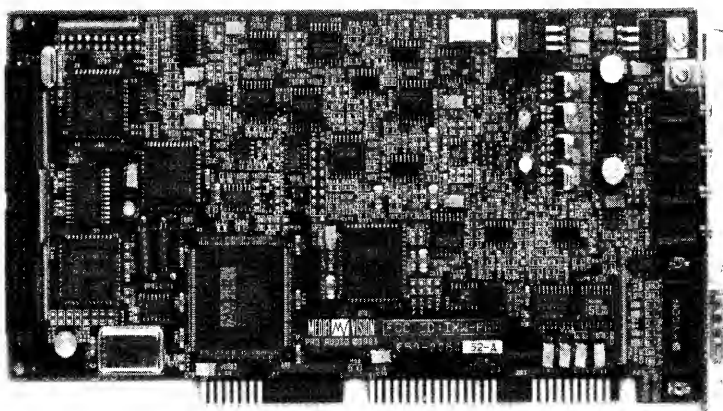
Apple Macintosh Display Card 24AC 24-Bit NuBus Card

Apple P/N 661-0432



**CD Multimedia Kit for PCs
Pro Audio Spectrum 16/SCSI Card**

Apple P/N 661-1741



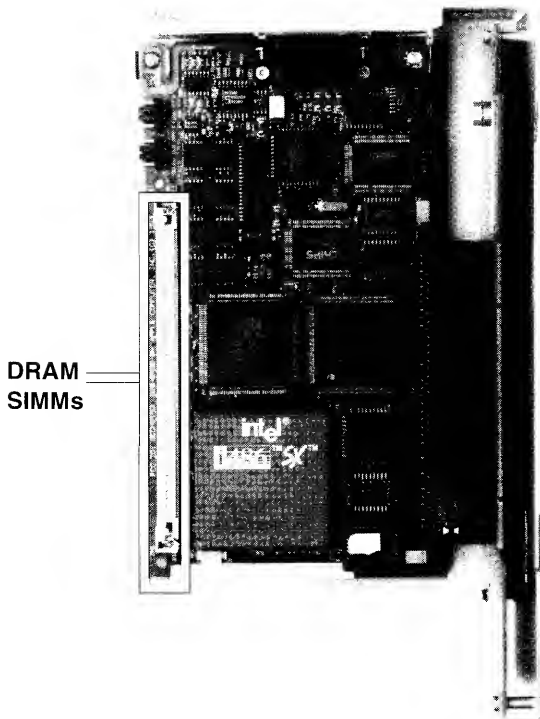
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Macintosh Quadra 610
DOS Compatibility Card

Apple P/N 661-1017



NOTE: Return the Macintosh Quadra 610 DOS compatibility card without DRAM SIMMs.

**Power Macintosh
NuBus Adapter Card**

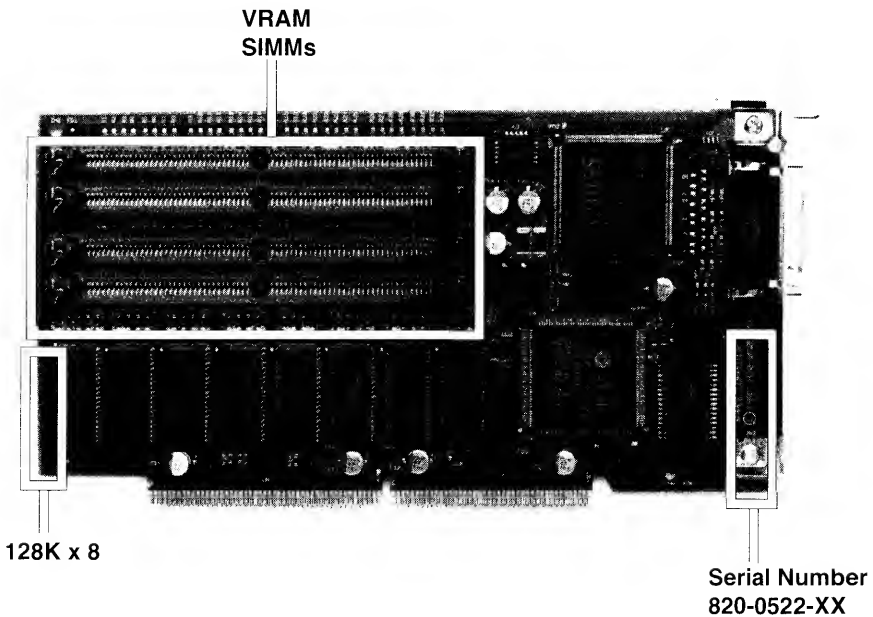
Apple P/N 661-0049

**Photograph not available
at the time of printing**

Power Macintosh 7100

Power Macintosh Video Card, 2 MB

Apple P/N 661-1748

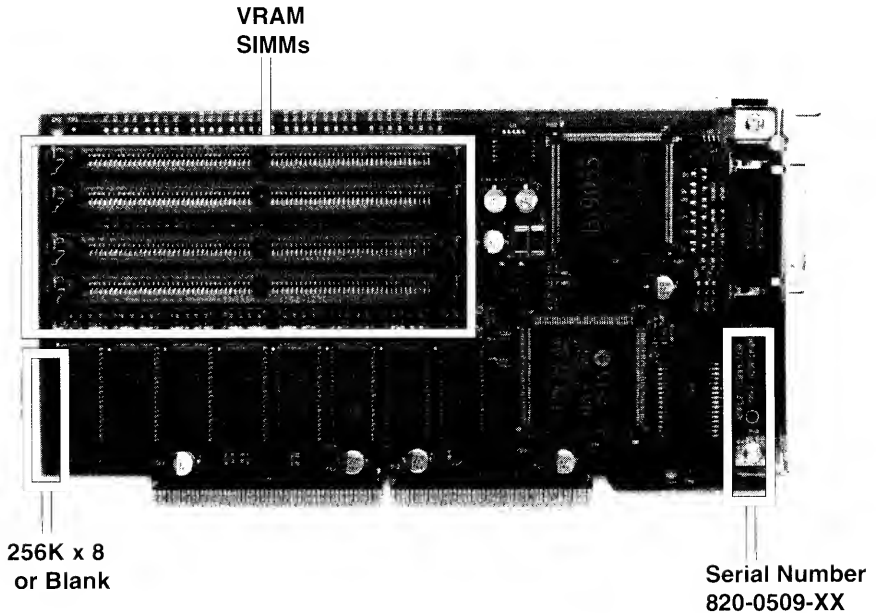


NOTE: The Power Macintosh 2 MB video card is similar to the 4 MB video card, P/N 661-1027. To identify the 2 MB video card, refer to the module serial number. For P/N 661-1748, the part number is 820-0522-XX. The lettering printed on the 2 MB video card is silkscreened in yellow, and the information *128K x 8* is printed on the lower left corner of the video card.

Return the Power Macintosh video card without VRAM SIMMs.

Power Macintosh 8100
Power Macintosh Video Card, 4 MB

Apple P/N 661-1027



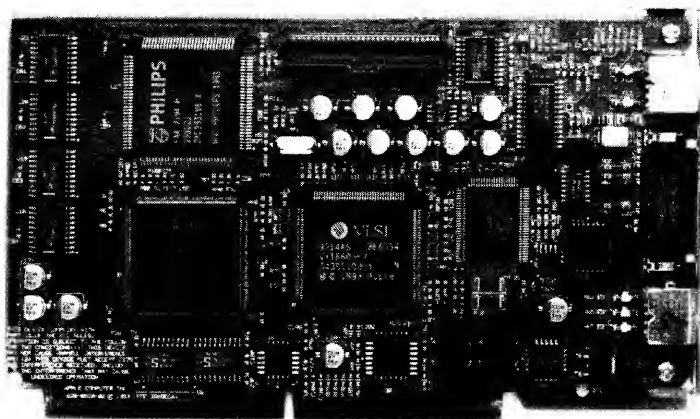
NOTE: The Power Macintosh 4 MB video card is similar to the 2 MB video card, P/N 661-1748. To identify the 4 MB video card, refer to the module serial number. For P/N 661-1027, the part number is 820-0509-XX. The lettering printed on the 4 MB video card is silkscreened in white, and will either be blank or have the information *256K x 8* printed on the lower left corner of the video card.

Return the Power Macintosh video card without VRAM SIMMs.

Power Macintosh

Power Macintosh AV Card

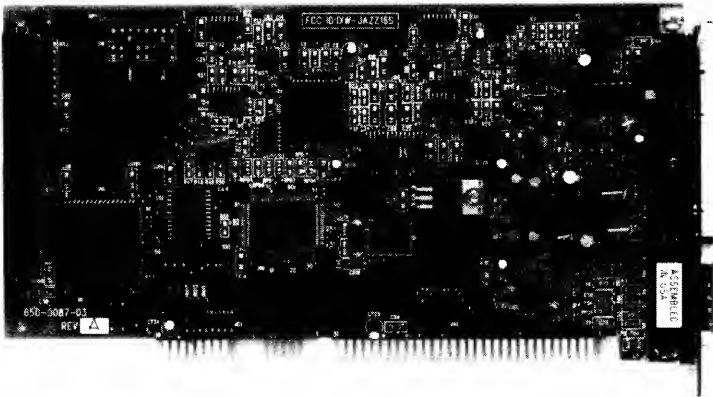
Apple P/N 661-1023



Macintosh

Apple Media Vision Jazz 16 Sound Card

Apple P/N 661-0100



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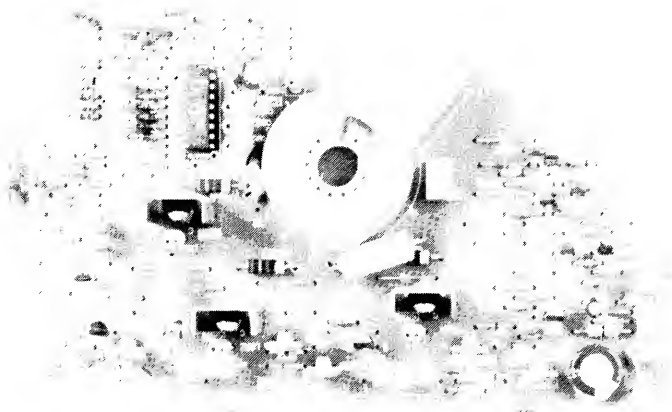
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Monitors

**AppleColor RGB Monitor
CRT Video Board**

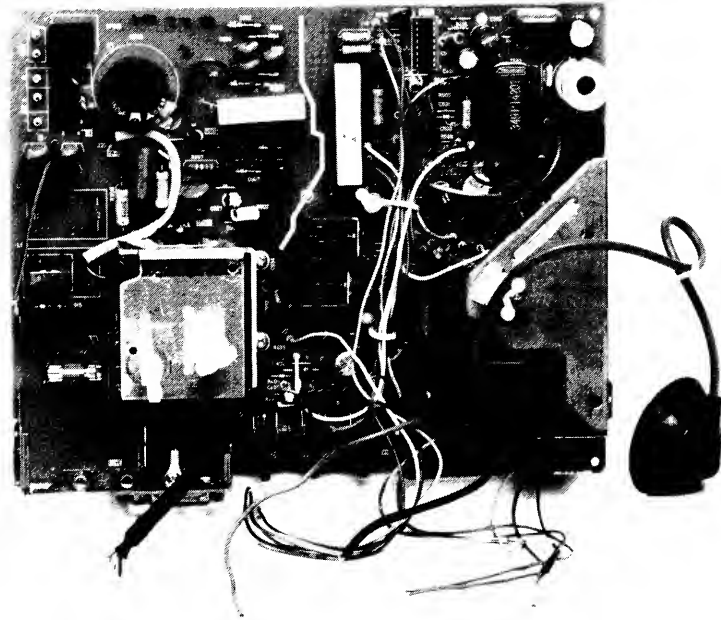
Apple P/N 661-0347



AppleColor RGB Monitor Power Supply Board

Apple P/N 661-0348 (110 V)

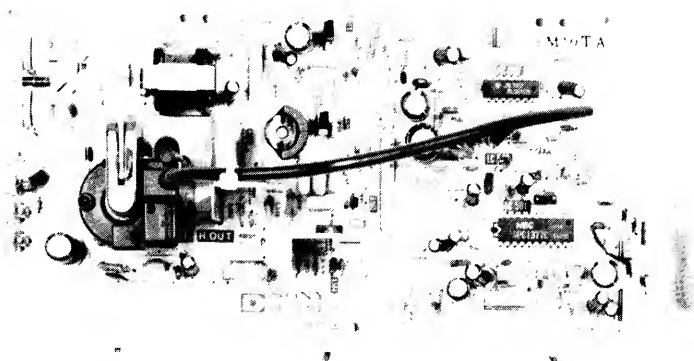
Apple P/N 661-0358 (220/240 V)



NOTE: Remove the three control knobs before you return the board to Apple.

Apple High-Resolution Monochrome Monitor Main Board

Apple P/N 661-0396



Apple High-Resolution Monochrome Monitor Power Supply

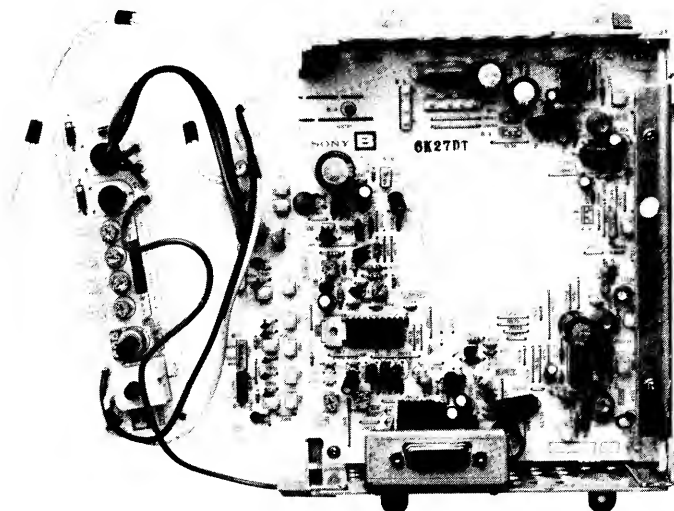
Apple P/N 661-0395



AppleColor High-Resolution RGB Monitor Video Color Board (Rev. A)

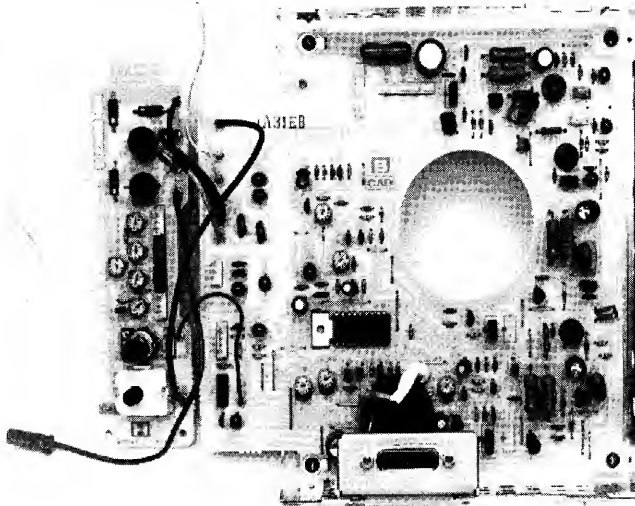
Apple P/N 661-0398

(When you return P/N 661-0398, Apple ships you P/N 661-0653.)



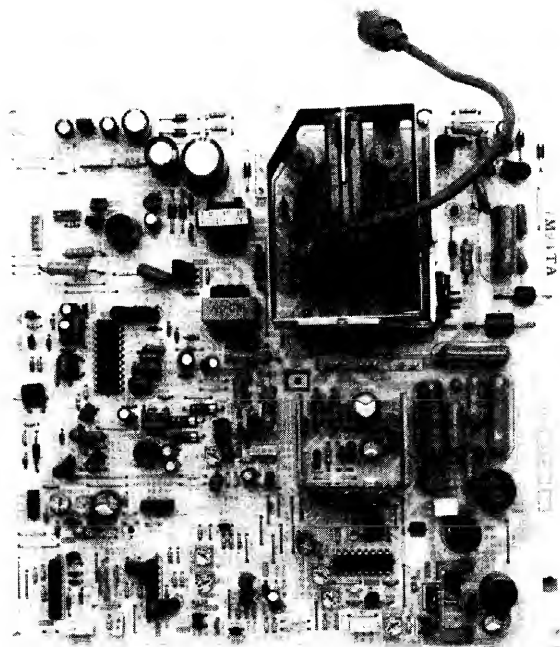
**AppleColor High-Resolution RGB Monitor
Video Color Board (Rev. B)**

Apple P/N 661-0653



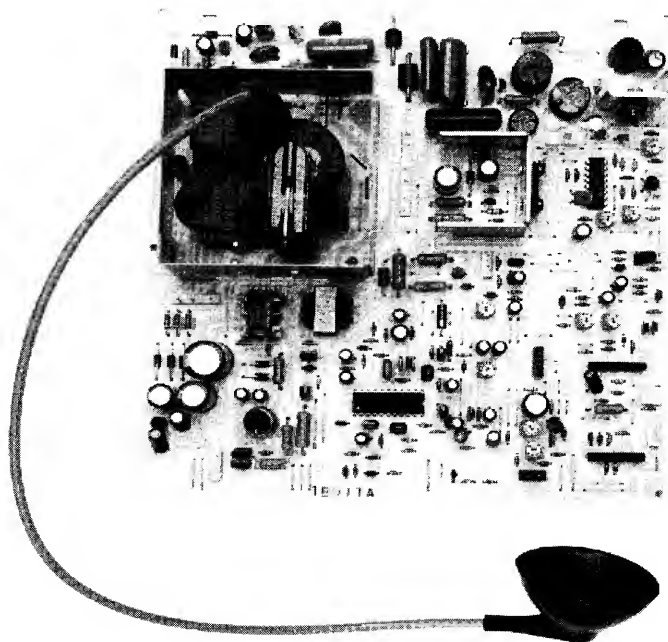
AppleColor High-Resolution RGB Monitor Deflection Board (Rev. A)

Apple P/N 661-0399



AppleColor High-Resolution RGB Monitor Main Board (Rev. B)

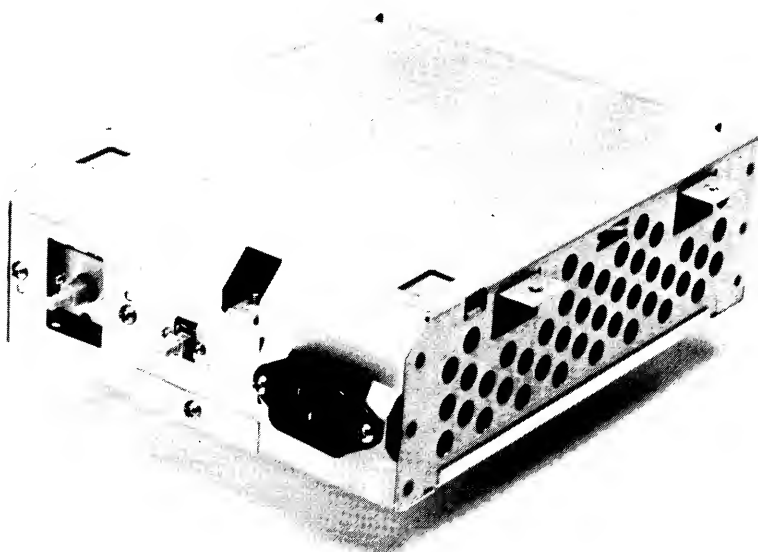
Apple P/N 661-0654



AppleColor High-Resolution RGB Monitor Power Supply

Apple P/N 661-0397 (Rev. A)

Apple P/N 661-0705 (Rev. B)



NOTE: P/N 661-0397 has the vendor number TK-20 or CRZ700 on it; P/N 661-0705 has the vendor number TK-20A or CRZ700A on it.

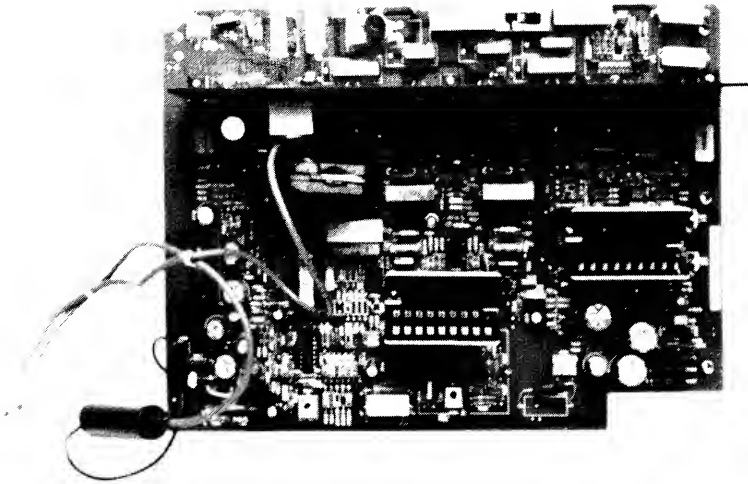
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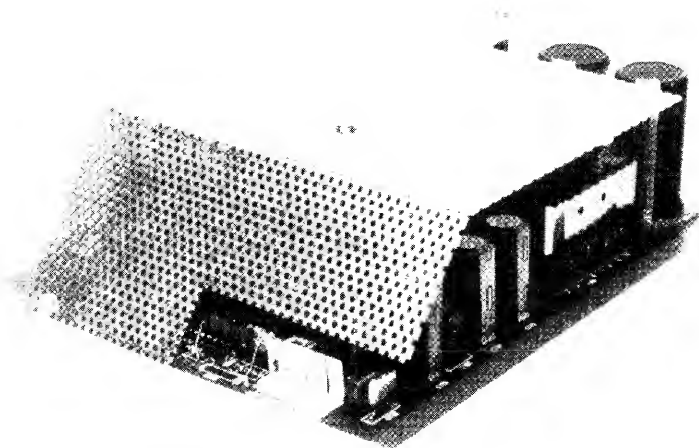
Apple Two-Page Monochrome Monitor Deflection Board

Apple P/N 661-0451



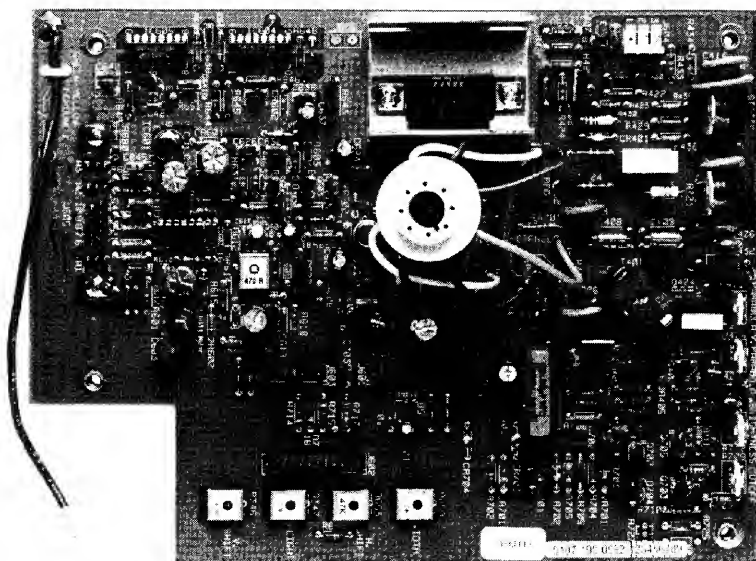
Apple Two-Page Monochrome Monitor Power Supply

Apple P/N 661-0453



Apple Two-Page Monochrome Monitor Video Board

Apple P/N 661-0452



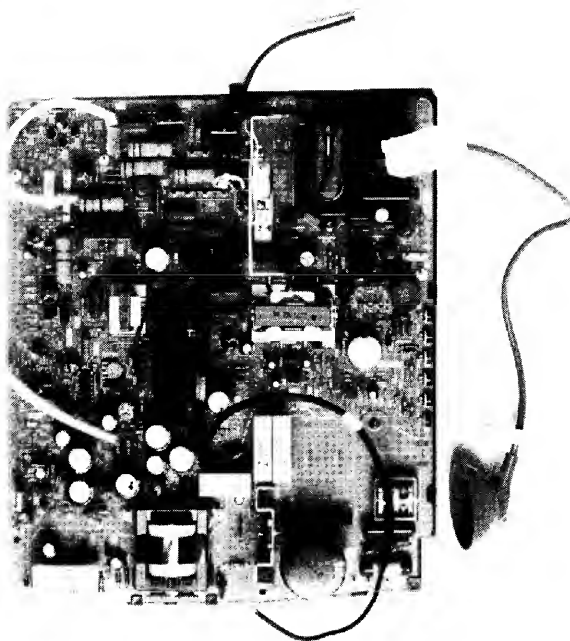
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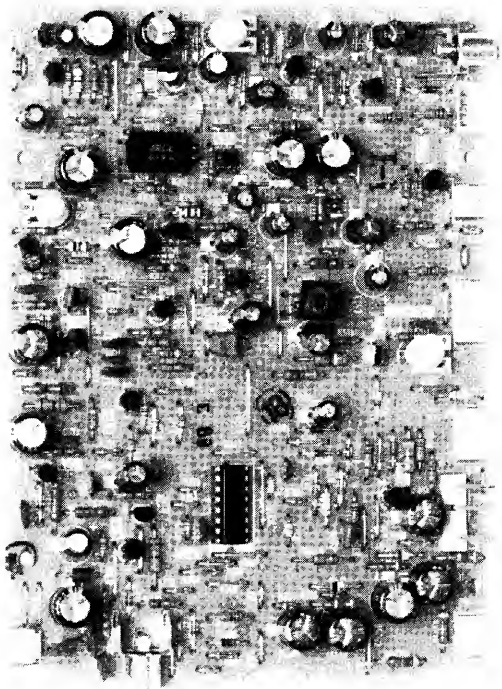
Portrait Display Monitor
Power Sweep Board

Apple P/N 661-0117



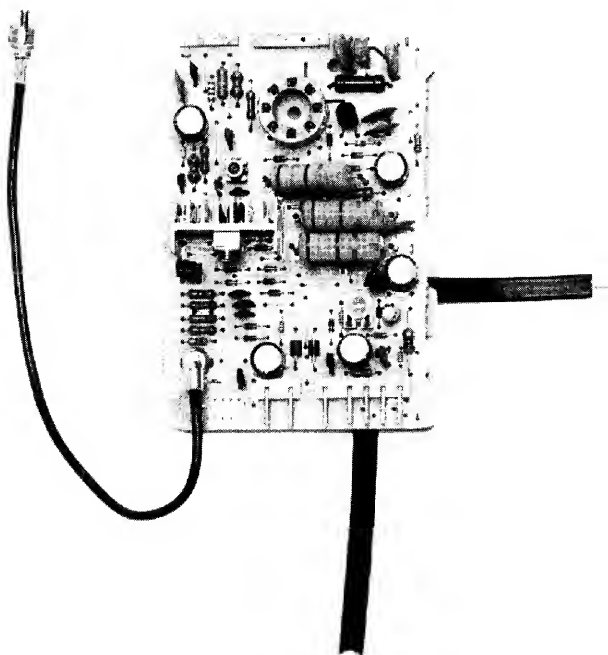
Portrait Display Monitor Video Board

Apple P/N 661-0118



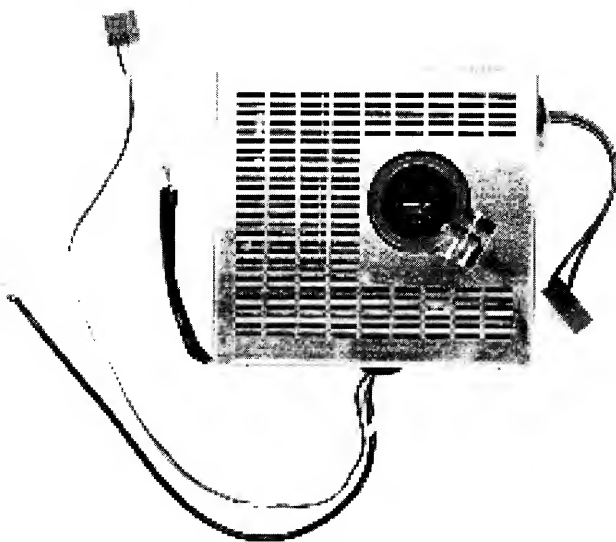
**Portrait Display Monitor
CRT Video Board**

Apple P/N 661-0119



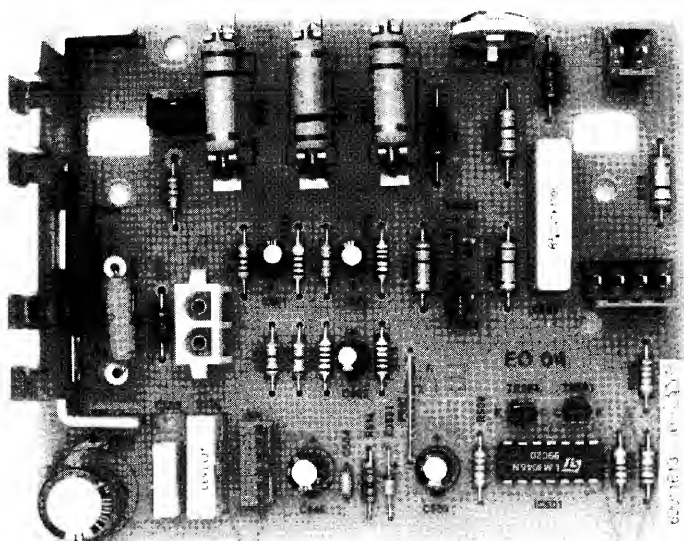
Portrait Display "Series B"
Video Board

Apple P/N 661-0539



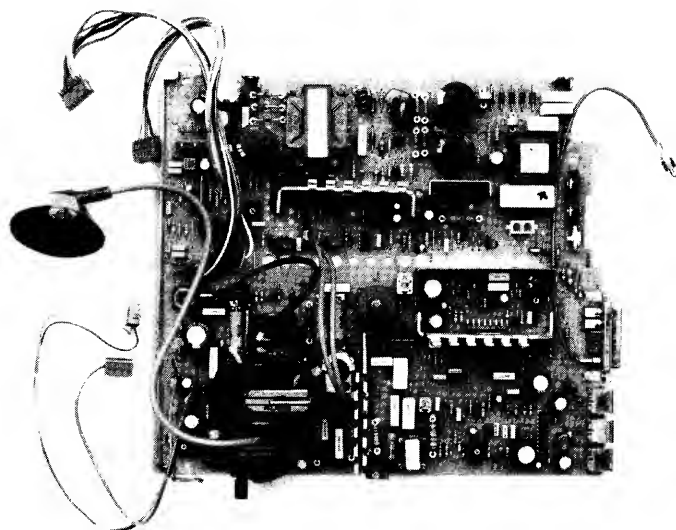
Portrait Display "Series B"
Dynamic Focus Board, VDE-B

Apple P/N 661-1603



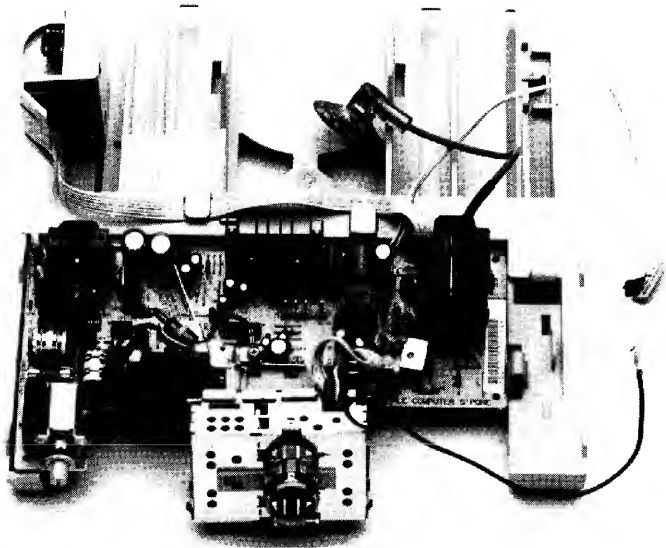
Portrait Display "Series B"
Main Deflection Board, VDE-B

Apple P/N 661-0580



**Macintosh 12-Inch Monochrome Display
Main Board**

Apple P/N 661-0615



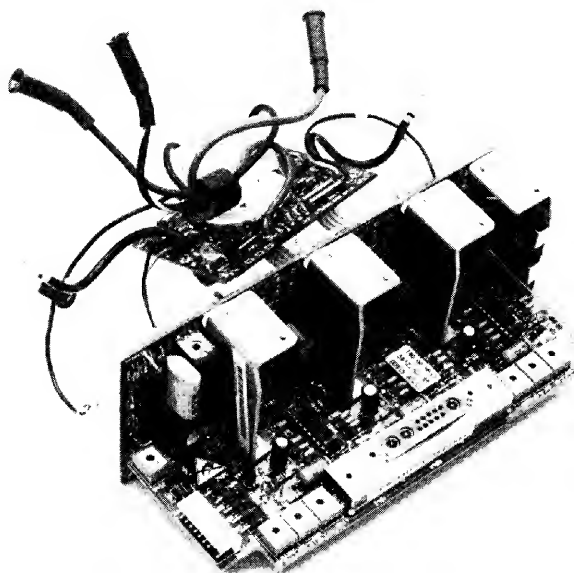
**Macintosh Color Classic
CRT Assembly, 9-Inch RGB, U.S.**

Apple P/N 661-0004



Macintosh 21-Inch Color Monitor Video/Color Assembly

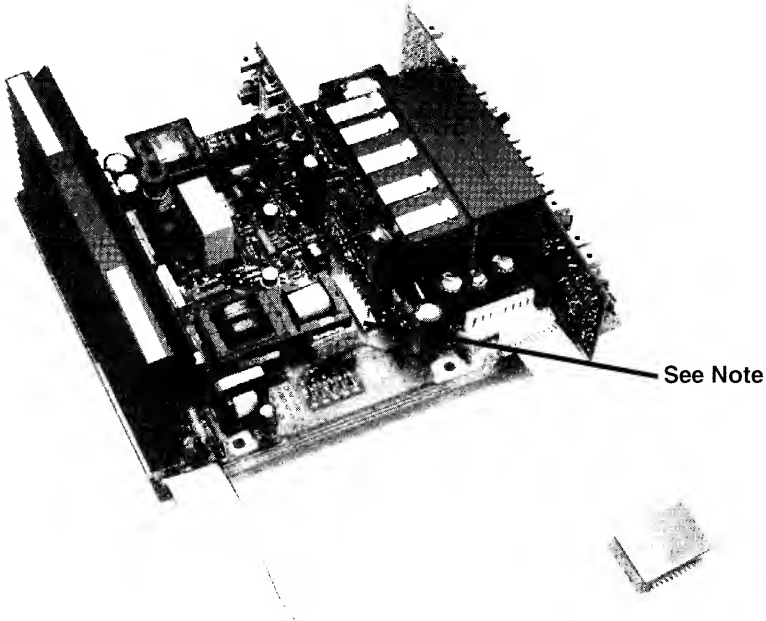
Apple P/N 661-0655



NOTE: Please return the heat sink when you return a defective video/color assembly to Apple.

Macintosh 21-Inch Color Monitor Main Board Assembly

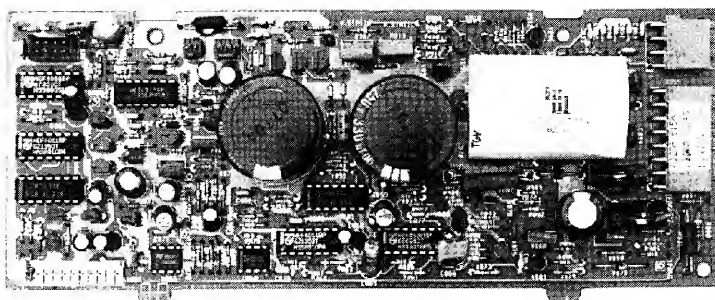
Apple P/N 661-0656



NOTE: Remove the flyback transformer assembly (P/N 076-0399) before you return the main board assembly to Apple.

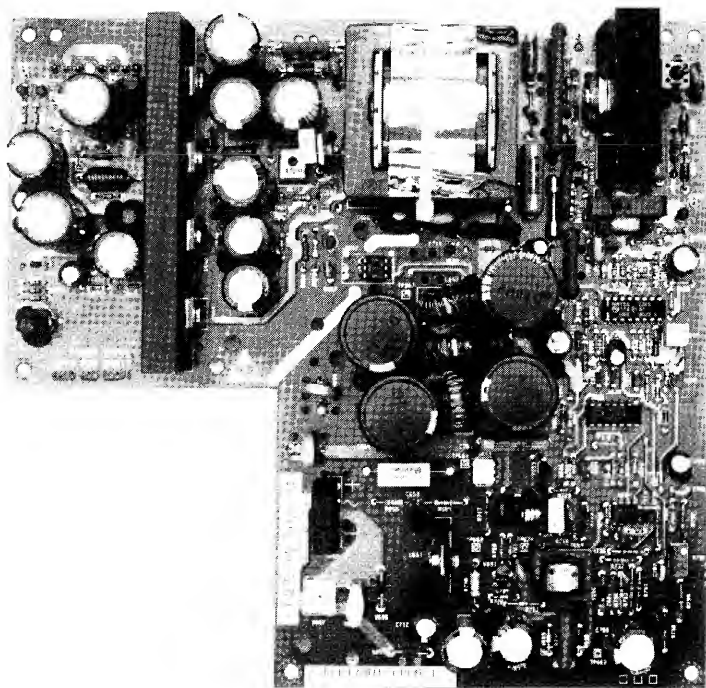
Macintosh 21-Inch Color Monitor
Magnetometer Degauss Board

Apple P/N 661-0657



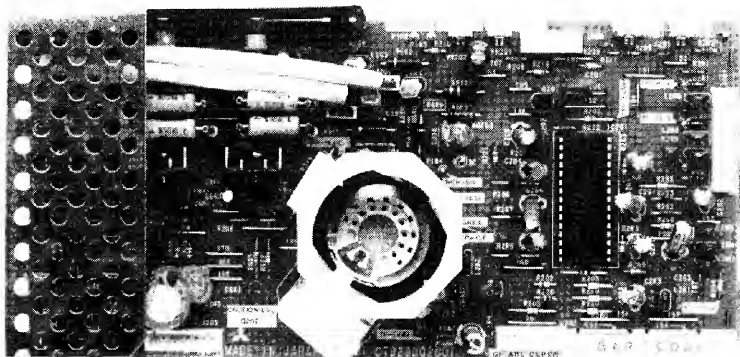
Macintosh 21-Inch Color Display Power Supply Board

Apple P/N 661-0658



Macintosh 12-Inch RGB Display CRT Video Board

Apple P/N 661-0618

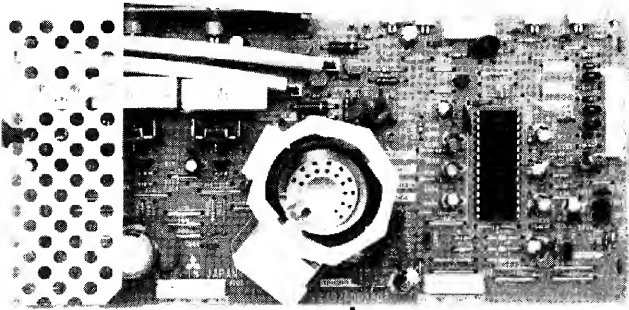


Serial Number

NOTE: You can identify P/N 661-0618 by the 11-digit serial number on the lower edge of the board. The last four digits are 2801.

Macintosh 12-Inch RGB Display CRT Video Board

Apple P/N 661-1618



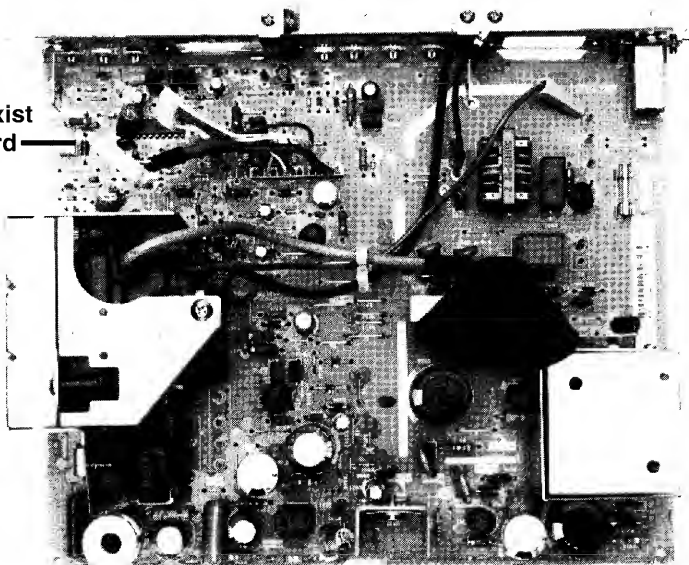
Serial Number

NOTE: Apple P/N 661-1618 is the part number for the universal video board. You can identify this card by the 11-digit serial number on the lower edge of the board. The last four digits are 2802.

Macintosh 12-Inch RGB Display Main Board (Domestic Rev. A)

Apple P/N 661-0616

VR504
does not exist
on this board

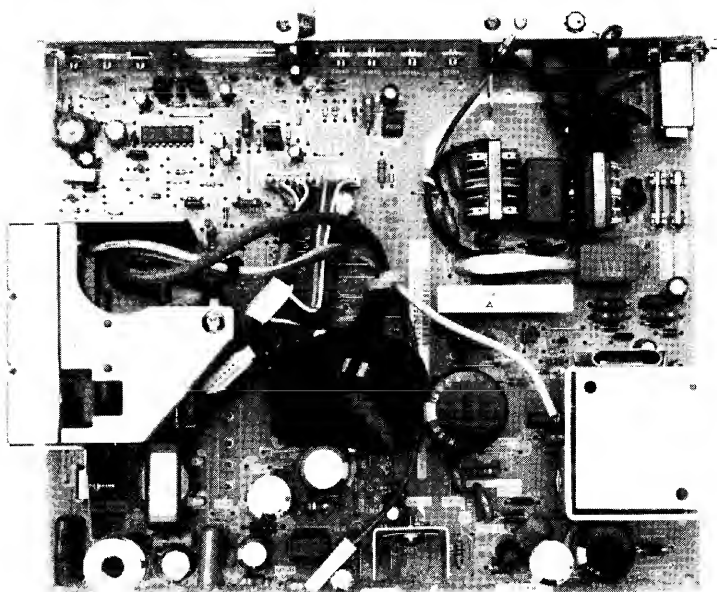


NOTE: Component *VR504* does not exist on this board; on the domestic Rev. B board (P/N 661-0659), component *VR504* is located next to connector *J502*.

Please refer to *Service Source* for detailed information on main board compatibility.

Macintosh 12-Inch RGB Display Main Board (International Rev. A)

Apple P/N 661-0617

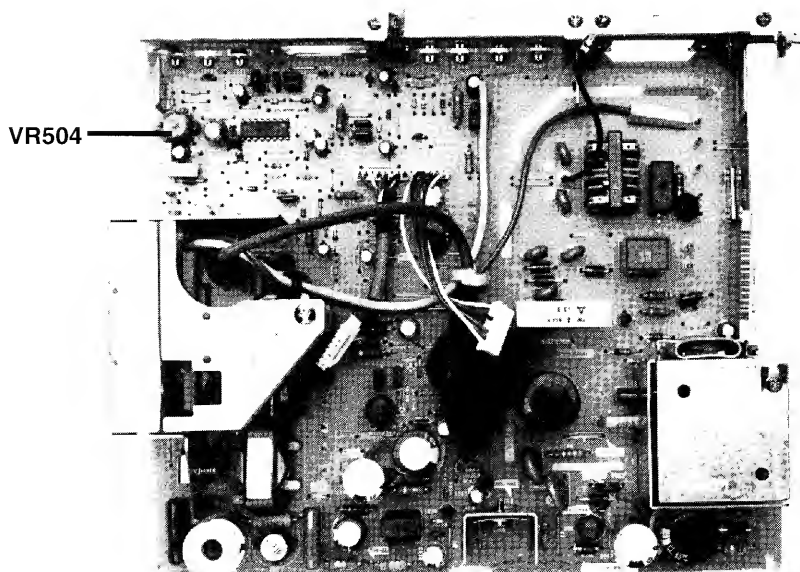


NOTE: You can identify the international Rev. A board by the ID no. CT920A05902, which is behind the AC input connector.

Please refer to *Service Source* for detailed information on main board compatibility.

Macintosh 12-Inch RGB Display Main Board (Domestic Rev. B)

Apple P/N 661-0659

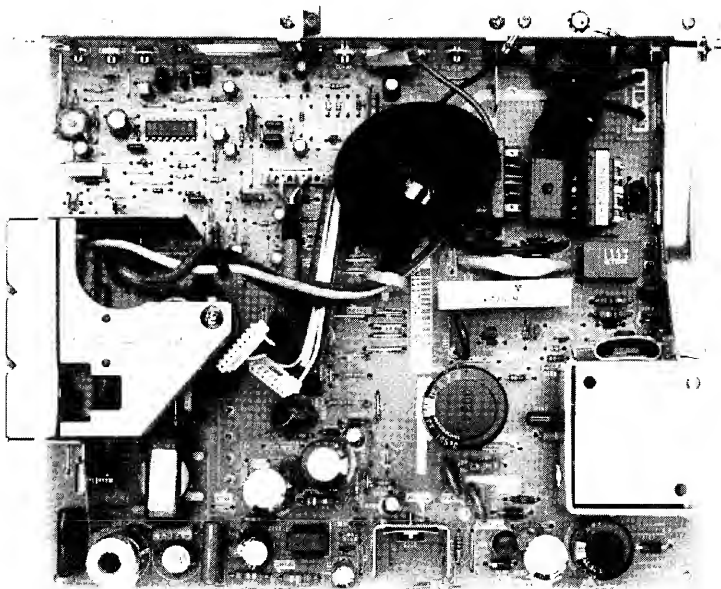


NOTE: The domestic Rev. B main board has component *VR504* mounted next to connector *J502*.

Please refer to *Service Source* for detailed information on main board compatibility.

Macintosh 12-Inch RGB Display Main Board (International Rev. B)

Apple P/N 661-0660

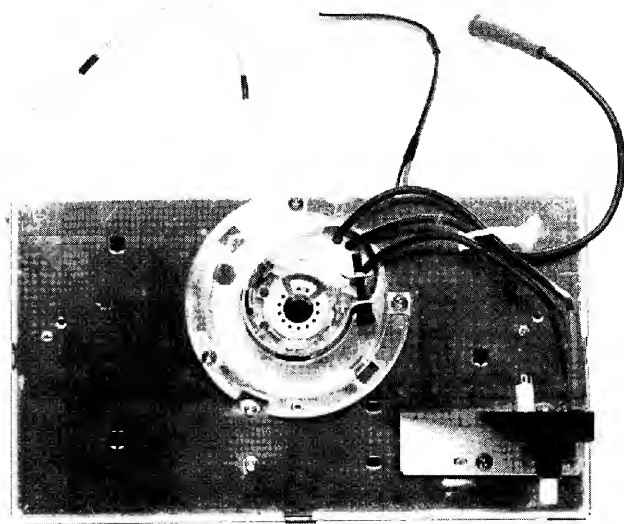


NOTE: You can identify the international Rev. B board by the ID no. CT920A07602, which is behind the AC input connector.

Please refer to *Service Source* for detailed information on main board compatibility.

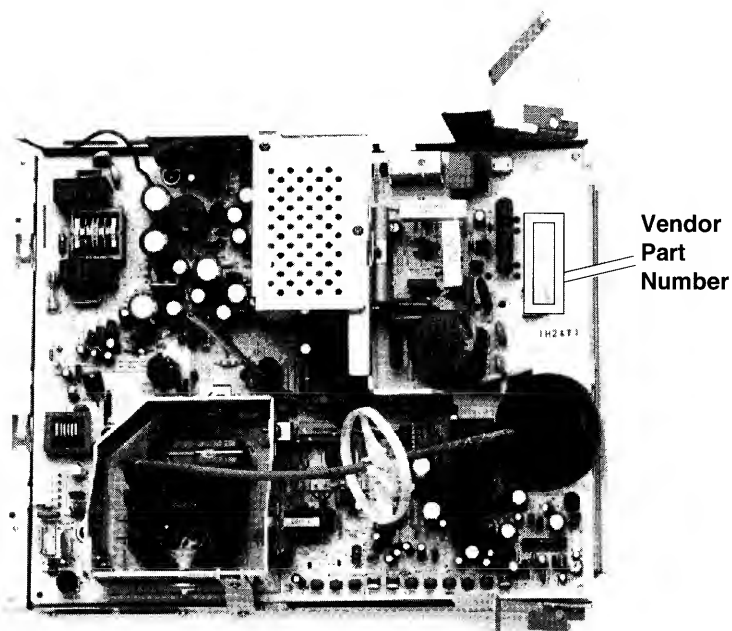
**Macintosh 16-Inch Color Display
CRT Video Board**

Apple P/N 661-1635



Macintosh 16-Inch Color Display Main Board (Rev. A)

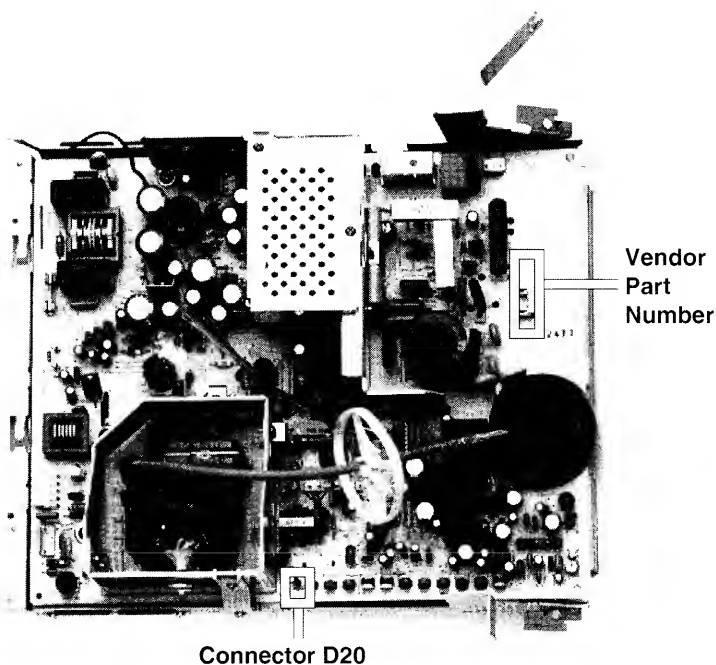
Apple P/N 661-1634



NOTE: You can identify this module by the vendor number *A-1335-028*.
If the vendor number is different, see P/N 661-1671.

Macintosh 16-Inch Color Display Main Deflection Board (Rev. B)

Apple P/N 661-1671



NOTE: The Macintosh 16-Inch Color Display main deflection board (Rev.B) has a vendor number of A-1335-040 or greater near connector D3. If the vendor number is A-1335-028, see Apple P/N 661-1634.

Connector D20 is located on the main deflection board (Rev. B) only.

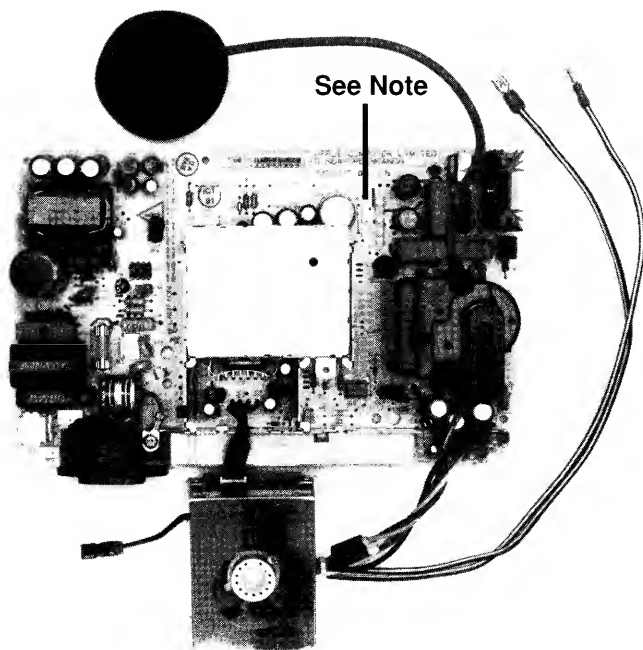


Macintosh Color Display Main Deflection Board

Apple P/N 661-1650

(When you return P/N 661-1650, Apple ships you either P/N 661-1650 or P/N 661-1699)

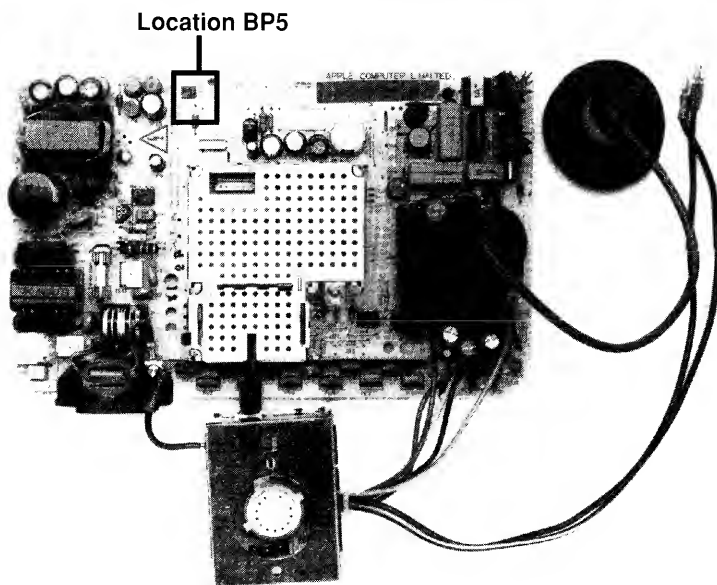
Apple P/N 661-0102



NOTE: There are two versions of the Macintosh Color Display main deflection boards. You can identify part number 661-0102 by the number 1-645-345-31 printed on the board.

Apple AudioVision 14 Display Main Deflection Board

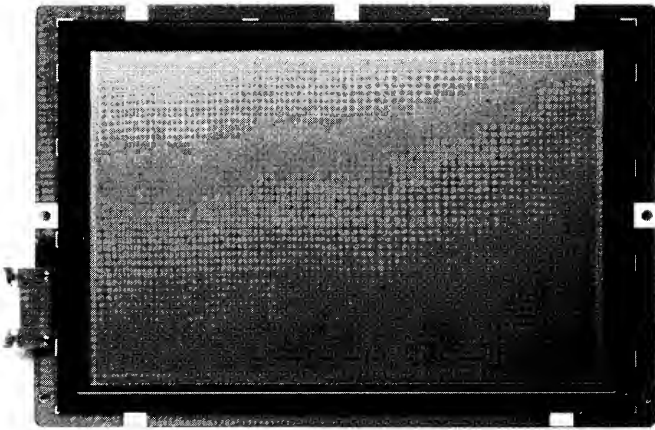
Apple P/N 661-1699



NOTE: The Apple AudioVision 14 Display and the Apple Macintosh Color Display main deflection boards look similar. You can identify the Apple AudioVision 14 Display main deflection board by the presence of a 2-pin power jumper at location BP5.

Macintosh Portable LCD Display

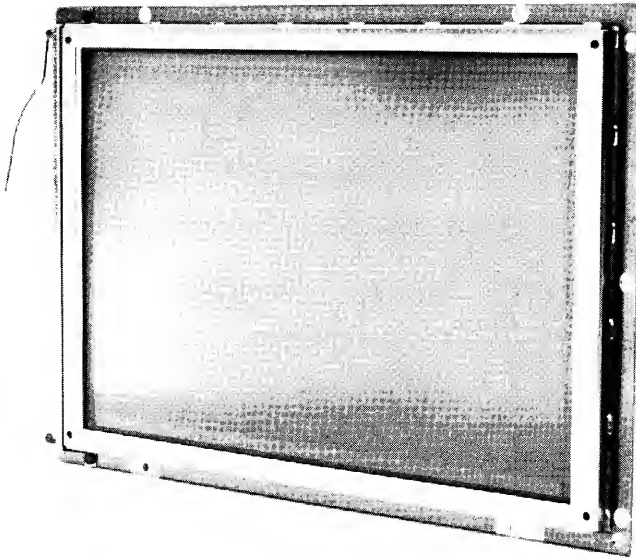
Apple P/N 661-0473



NOTE: You must return the panel with the electrostatic discharge (ESD) protective tape intact. The tape is located on the back of the panel around all four edges (not shown in above photograph). Early production units with the following serial numbers may not have tape: HK920xxxxxx017A, HK922xxxxxx017A, HK924xxxxxx017A, HK925xxxxxx017A, and HK926xxxxxx017A.

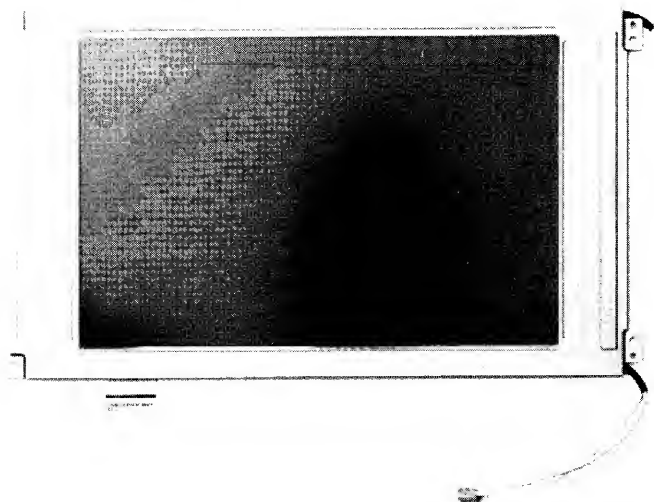
**Macintosh Portable
LCD Backlit Display**

Apple P/N 661-0647



PowerBook 100
FSTN Display

Apple P/N 661-0675

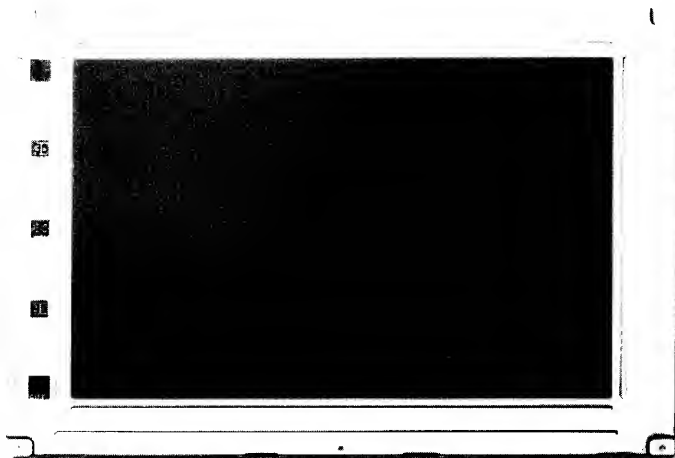


NOTE: Transfer the protective plastic from the new module to the module being returned.

This module is not available in the U.S. All U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

PowerBook 140/145
FSTN Display (Rev. A)

Apple P/N 661-0706



NOTE: Transfer the protective plastic from the new module to the module being returned.

PowerBook 140
FSTN Display (Rev. B)

Apple P/N 661-0681

(When you return P/N 661-0681, Apple ships you P/N 661-8745.)

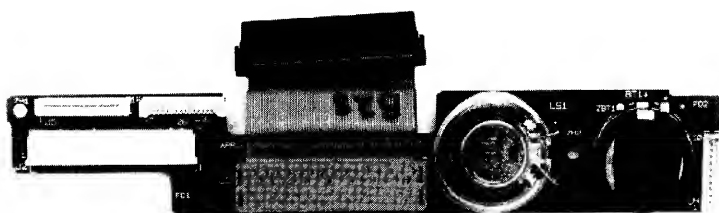


NOTE: Transfer the protective plastic from the new module to the module being returned.

This module is not available in the U.S. U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

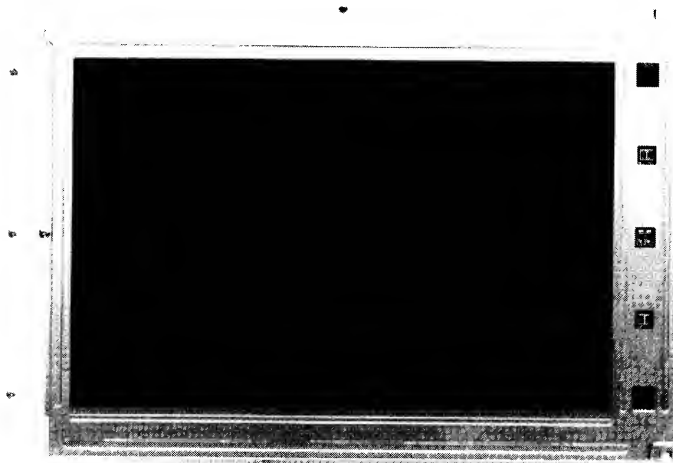
**PowerBook 140/145/170
Interconnect Board**

Apple P/N 661-0724



PowerBook 145/160/165
FSTN Display (Rev. C)

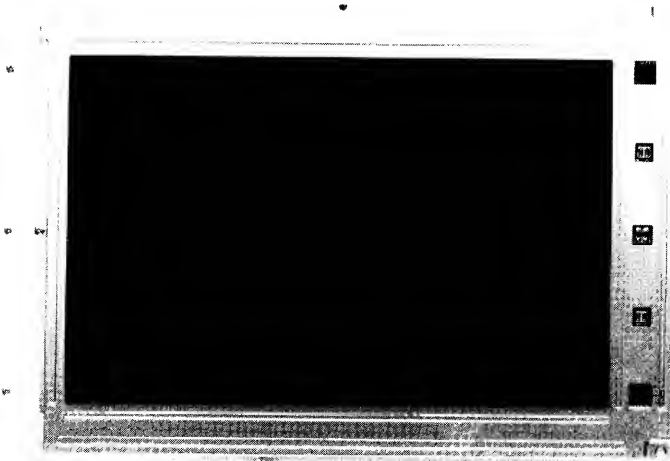
Apple P/N 661-0745



NOTE: Transfer the protective plastic from the new module to the module being returned.

**PowerBook 160
Kit, FSTN Display (Rev. C)**

Apple P/N 661-8745

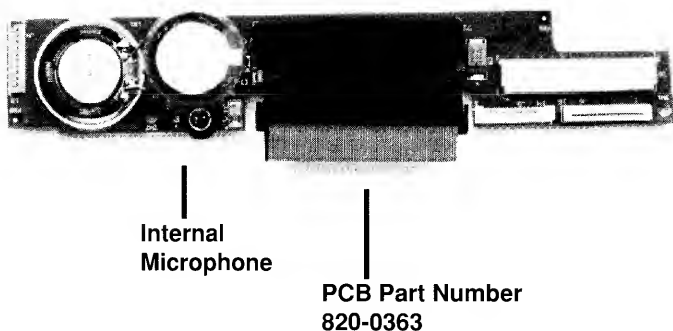


NOTE: Transfer the protective plastic from the new module to the module being returned.

This kit contains the items required to replace the Apple P/N 661-0681 display with the Apple P/N 661-0745 display.

**PowerBook 160/165/180
Interconnect Board**

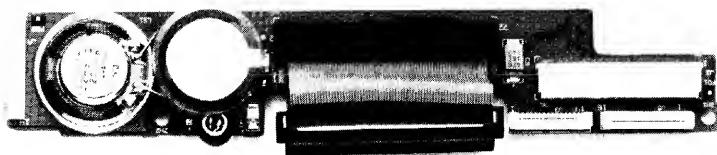
Apple P/N 661-0750



NOTE: The PowerBook 160/165/180, 140/145/170, 165c, and 180c interconnect boards are similar. You can identify the PowerBook 160/165/180 interconnect board by the presence of an internal microphone and the PCB part number 820-0363 underneath the cable assembly.

PowerBook 165c Interconnect Board

Apple P/N 661-0764

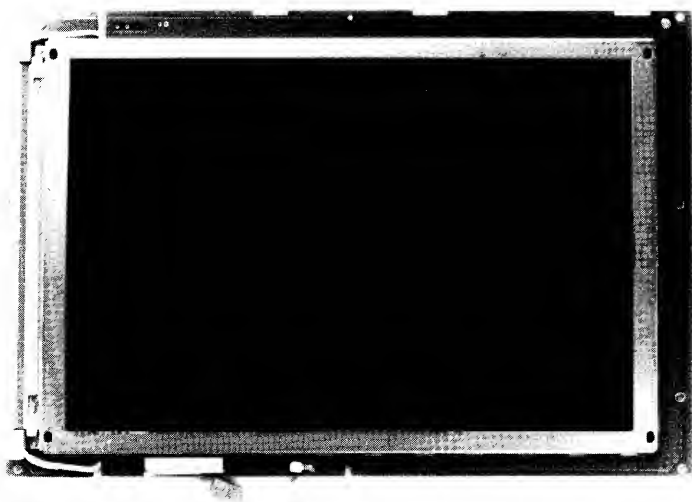


**PCB Part Number
820-0419**

NOTE: The PowerBook 165c, 160/165/180, 180c, and 140/145/170 interconnect boards are similar. You can identify the 165c interconnect board by the PCB part number 820-0419 underneath the cable assembly.

PowerBook 180
Active-Matrix Display

Apple P/N 661-0748



NOTE: Transfer the protective plastic from the new module to the module being returned.

PowerBook 180c
Active-Matrix Color Display

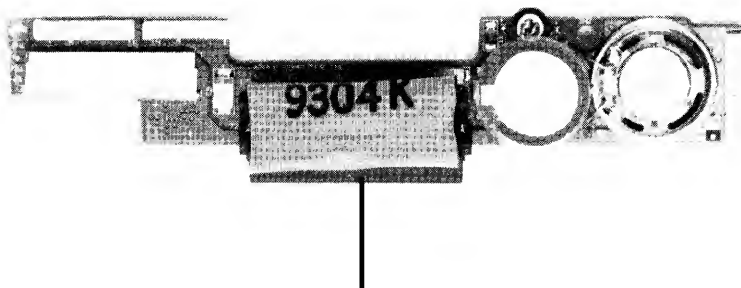
Apple P/N 661-0686



NOTE: Transfer the protective plastic from the new module to the module being returned.

**PowerBook 180c
Interconnect Board**

Apple P/N 661-0685



**Part Number
820-0438**

NOTE : The PowerBook 180c, 165c, 160/180, and 140/145/170 interconnect boards are similar. You can identify the 180c interconnect board by the PCB part number 820-0438 underneath the cable assembly.

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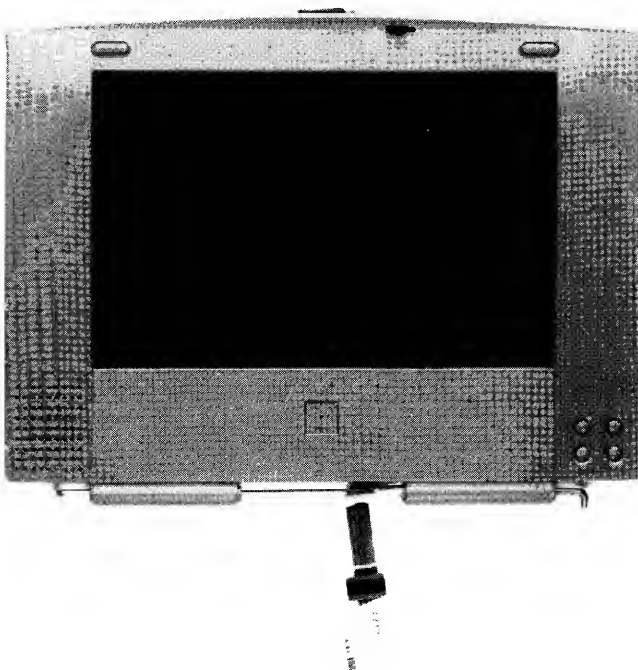
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PowerBook Duo 210/230

FSTN Display

Apple P/N 661-1655 (210)

Apple P/N 661-1673 (230)



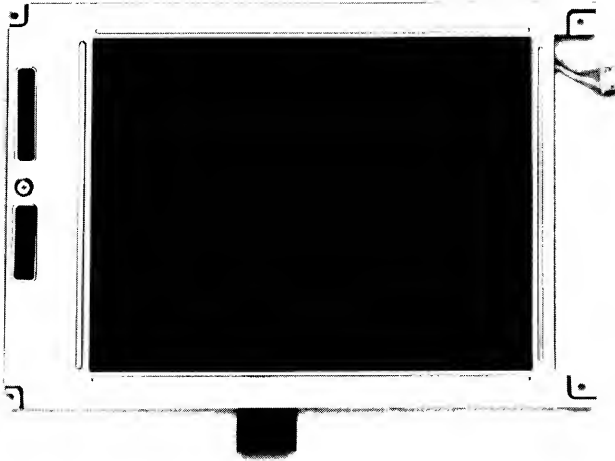
NOTE: The PowerBook Duo 210 and 230 FSTN displays are similar. You can identify each display by the product name on the bezel.

In the U.S., this module is available only to service providers who attended the Macintosh PowerBook Service Course. All other U.S. service providers must contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

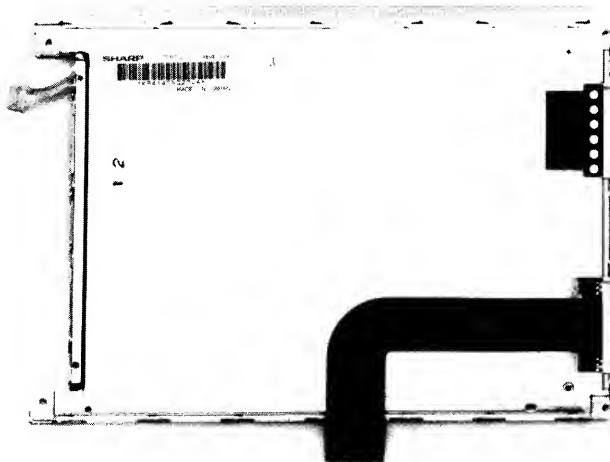
PowerBook 520c
Display, Dual Scan Color

Apple P/N 661-0062

Top



Bottom



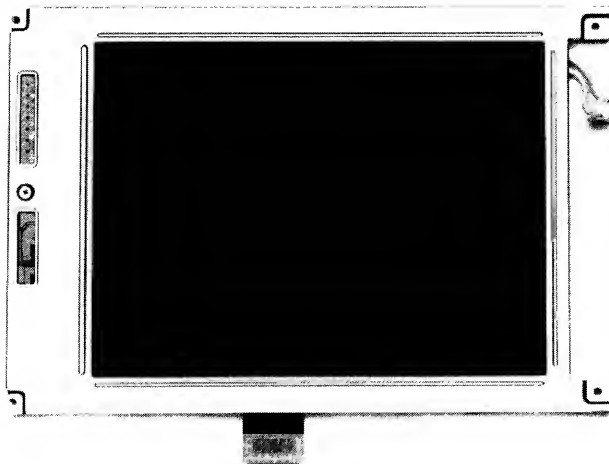
NOTE: Transfer the protective plastic from the new module to the module being returned.

Return the module WITH the display cable.

PowerBook 520
Display, Dual Scan Grayscale

Apple P/N 661-0064

Top



Bottom



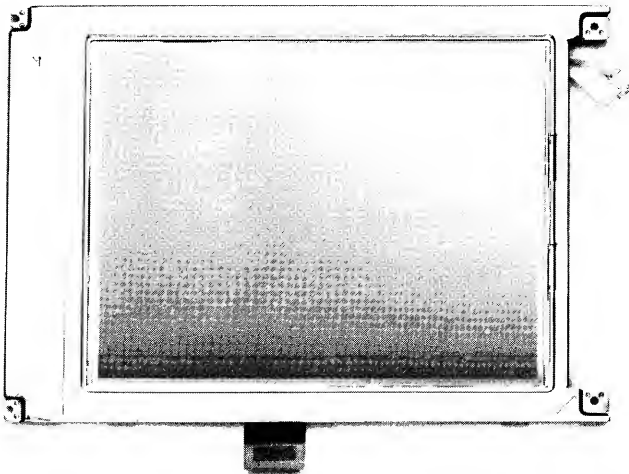
NOTE: Transfer the protective plastic from the new module to the module being returned.

Return the module WITH the display cable.

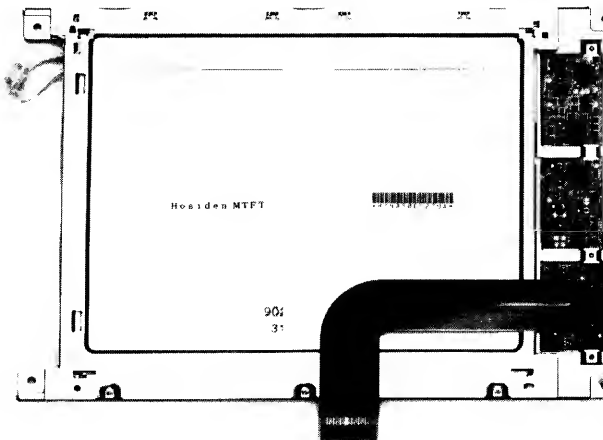
PowerBook 540
Display, TFT Grayscale

Apple P/N 661-0063

Top



Bottom

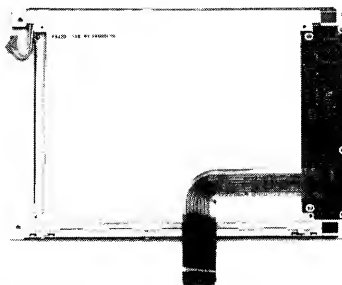
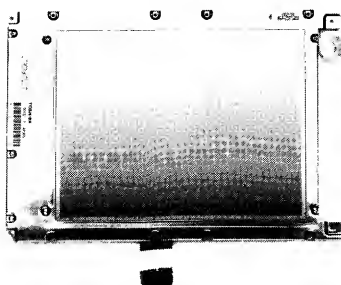
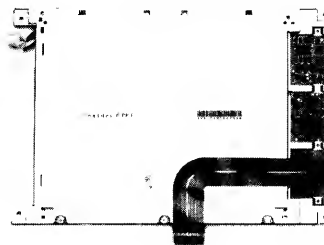
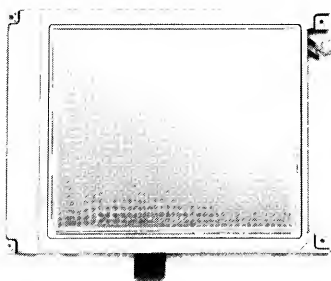
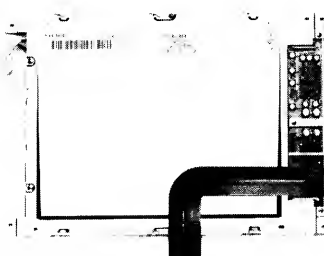
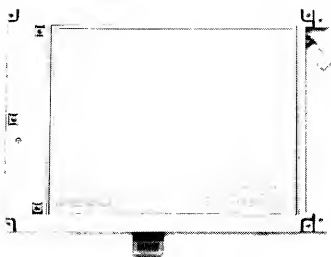


NOTE: Transfer the protective plastic from the new module to the module being returned.

Return the module **WITH** the display cable.

PowerBook 540c
Display, TFT Color

Apple P/N 661-0056



NOTE: Transfer the protective plastic from the new module to the module being returned.

Return the module WITH the display cable.

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Apple
Basic Color Monitor

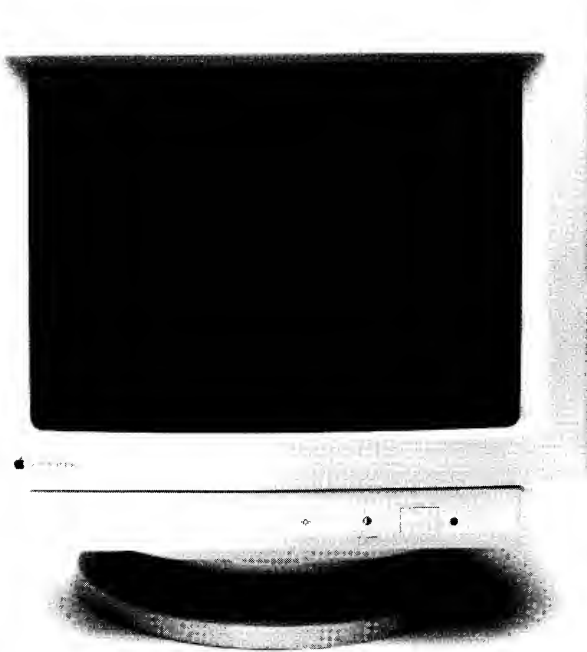
Apple P/N 661-0008, 110 V, U.S./ Pacific



NOTE: There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version. To obtain a monitor with manufacturing part number 645-0031 or PA645-0031, order Apple part number 661-0008.

Apple
Basic Color Monitor

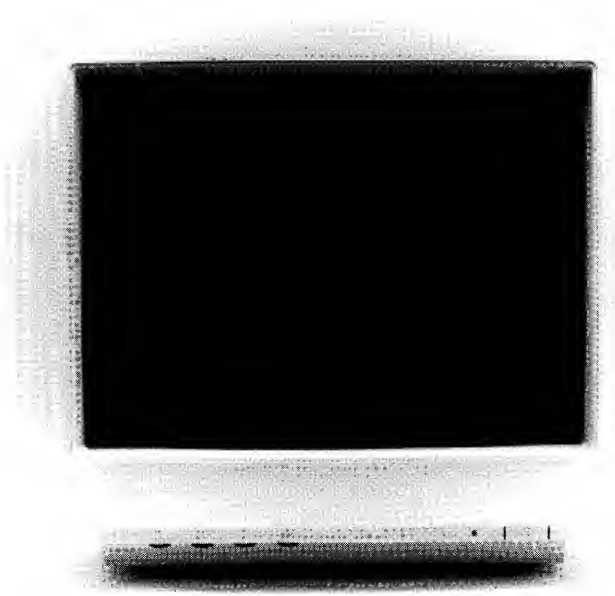
Apple P/N x661-0008, 220 V, Australia



NOTE: There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version. To obtain a monitor with manufacturing part number x645-0031, order Apple part number x661-0008.

Apple
Basic Color Monitor

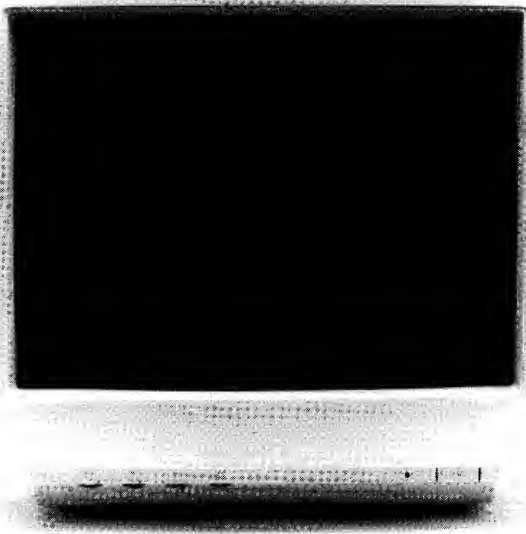
Apple P/N 661-0009, 110 V, U.S./ Pacific



NOTE: There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version. To obtain a monitor with manufacturing part number 645-0032 or PA645-0032, order Apple part number 661-0009.

Apple
Basic Color Monitor

Apple P/N x661-0009, 220 V, Australia



NOTE: There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version. To obtain a monitor with manufacturing part number x645-0032, order Apple part number x661-0009.

Apple
Basic Color Monitor

Apple P/N Z661-0010, 220 V, European

**Photograph not available
at the time of printing**

NOTE: There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version. To obtain a monitor with manufacturing part number Z645-0034, order Apple part number Z661-0010.

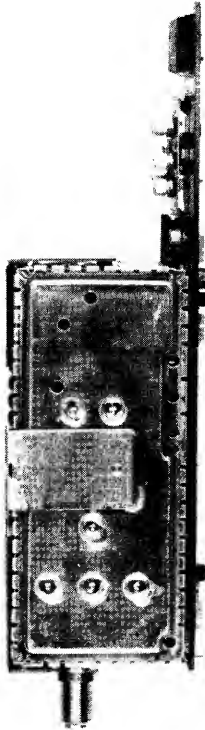
**Apple
Color Plus 14-Inch Display**

Apple P/N 661-0870



**Macintosh TV
Tuner PCB**

Apple P/N 661-1731



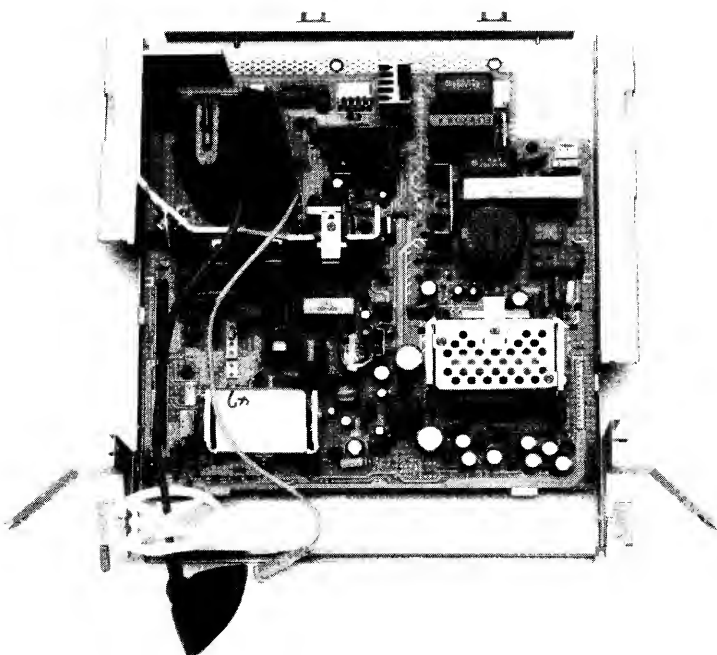
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Apple Multiple Scan 17 Display Main Deflection Board

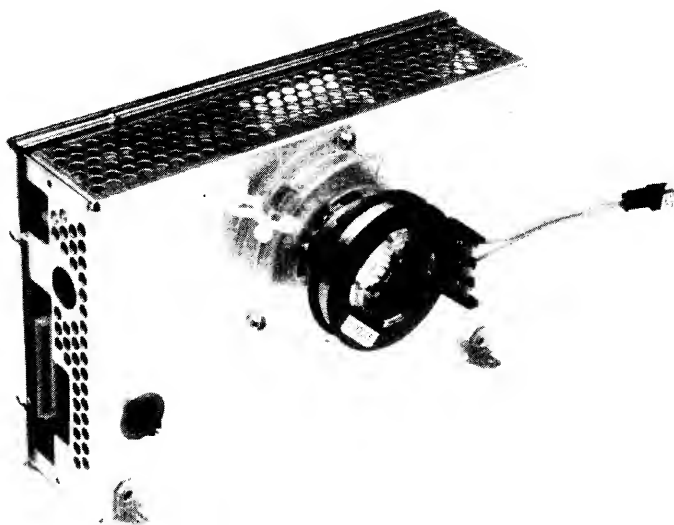
Apple P/N 661-0881



NOTE: Return the main deflection board without the microprocessor board and cables.

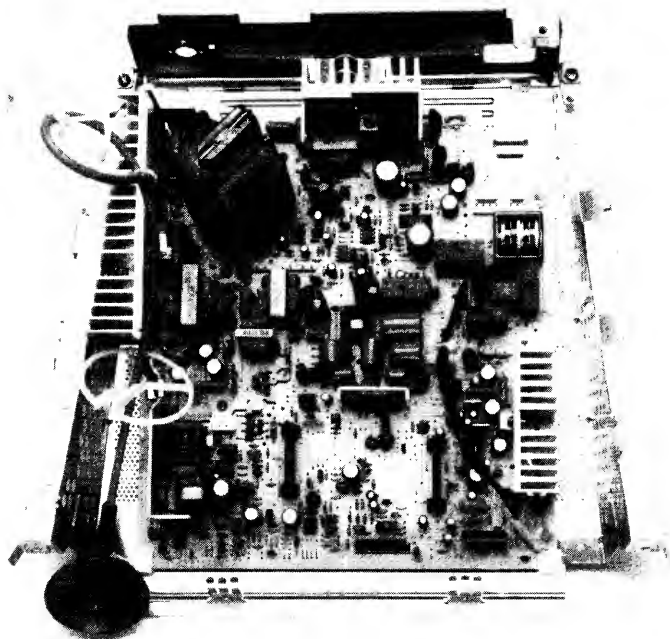
Apple Multiple Scan 17 Display CRT Video Board

Apple P/N 661-0882



Apple Multiple Scan 20 Display Main Deflection Board

Apple P/N 661-0506

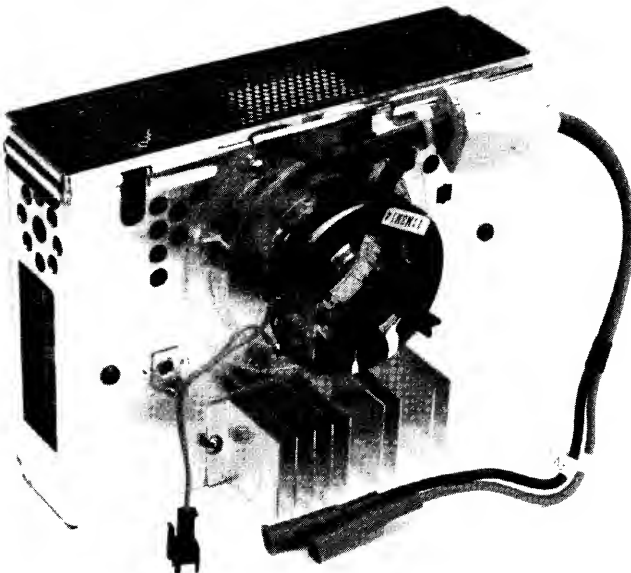


NOTE: Remove the video cable, serial I/O board assembly, and AC inlet assembly from the rear connector panel before returning the main deflection board to Apple.

You must also remove the focus control board, microprocessor control board, and cables as shown in the photo.

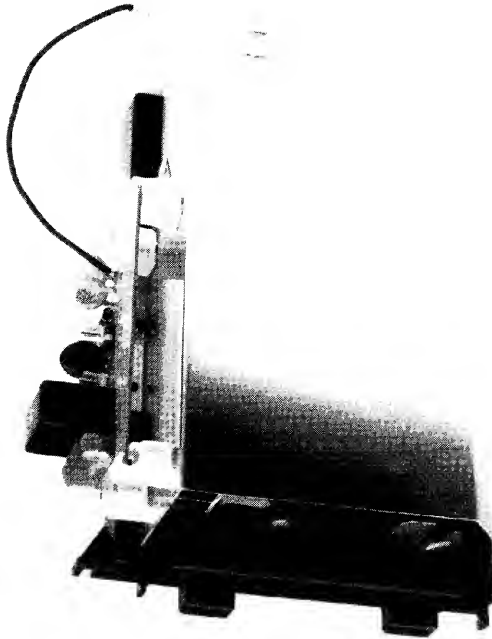
Apple Multiple Scan 20 Display CRT/Video Board

Apple P/N 661-0507



**Apple Multiple Scan 20 Display
Power Supply Assembly**

Apple P/N 661-0508



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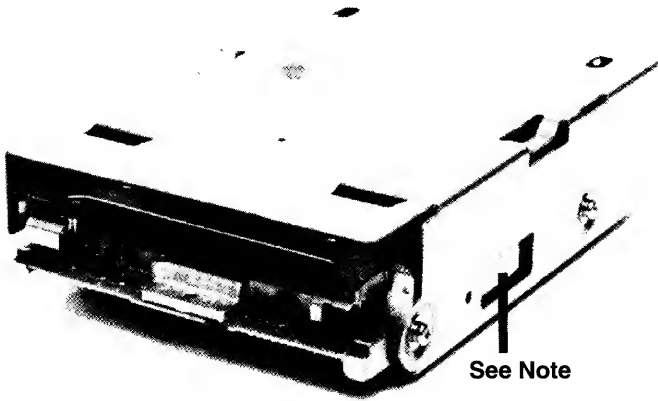
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Drives

Apple SuperDrive 1.4 MB Drive Mechanism

Apple P/N 661-0474



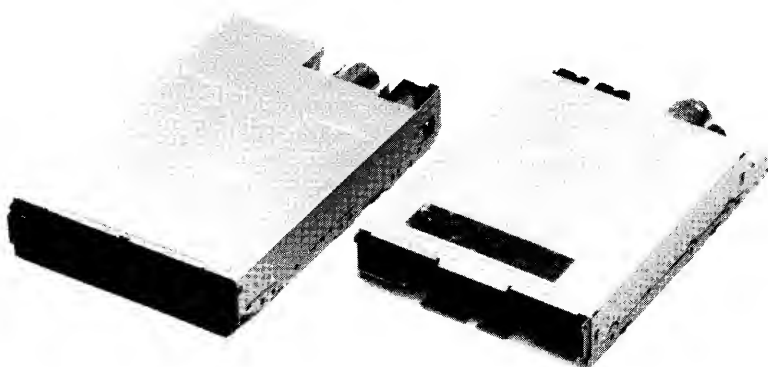
NOTE: This 1.4 MB drive mechanism has a 2 MB designation on the blue model number label.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple SuperDrive 1.4 MB Drive Mechanism

Apple P/N 661-0121
(1.44 Floppy Disk Drive without auto insert)

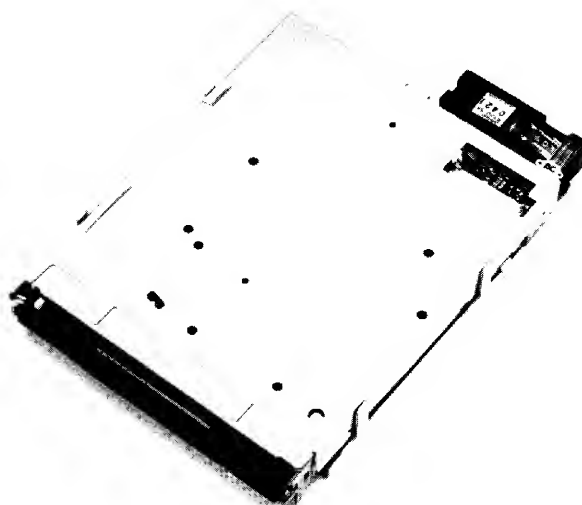


APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm

Apple P/N 661-1623

(When you return P/N 661-1623, Apple ships you P/N 661-1651.)

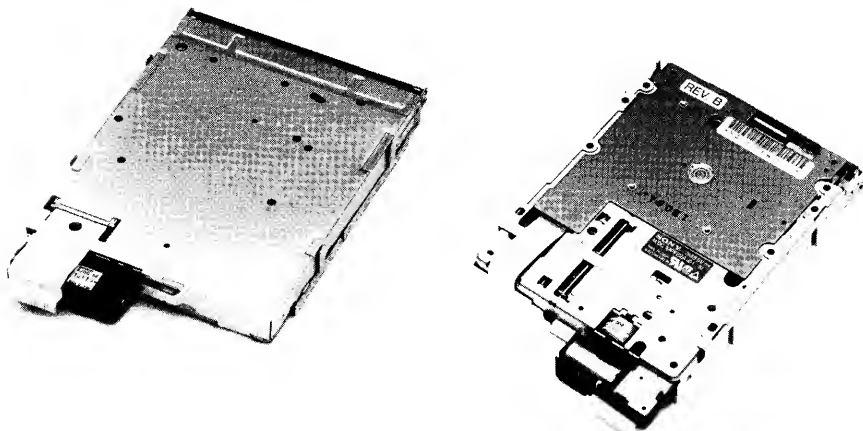


WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm

Apple P/N 661-1651



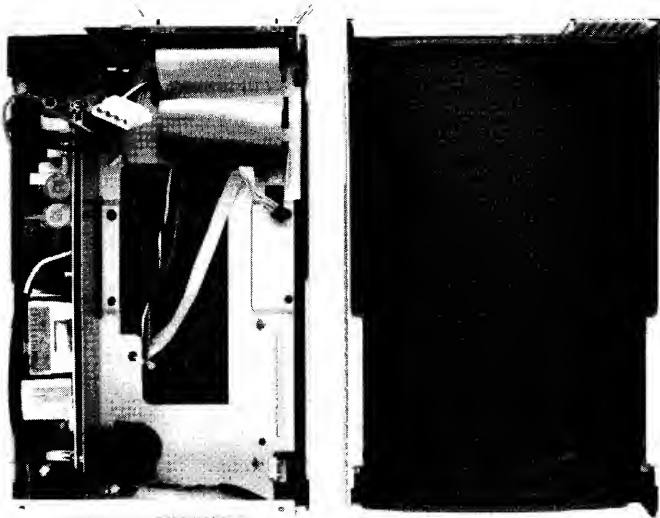
NOTE: This 1.4 MB drive mechanism has a *P2* at the end of the serial number or a *Rev. B* or *Read Fix* label on the shield on the bottom of the drive.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

**Apple External Hard Drive
Enclosure/Power Supply**

Apple P/N 661-0032



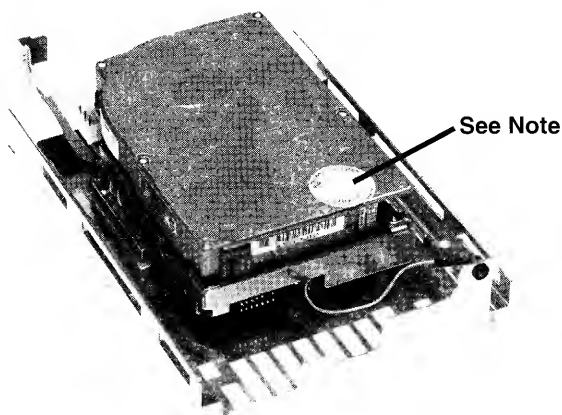
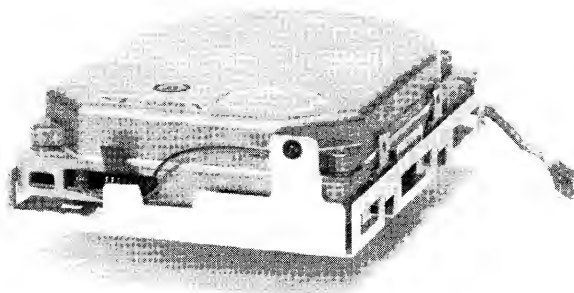
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Hard Disk 20SC
20 MB External HDA

Apple P/N 661-0342



NOTE: In lieu of an Apple logo, this drive has a label marked "AXX" in the location indicated.

Return the hard disk with the HDA frame, LED cable, and SCSI select cable attached.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Hard Disk 20

HDA 20 MB, 2.5", 17 mm, HDI-30

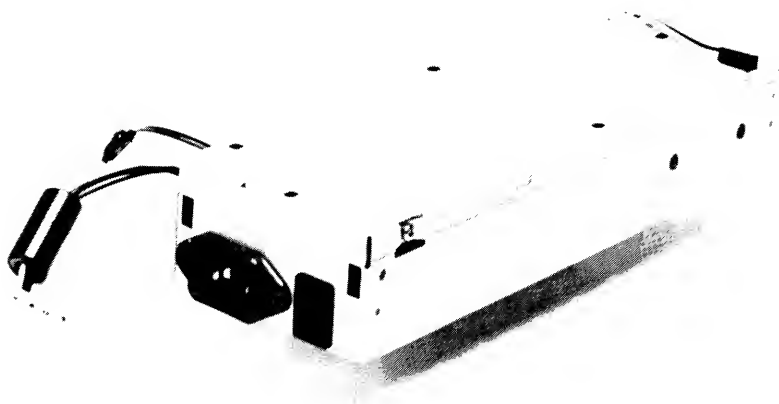
Apple P/N 661-1622



APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Hard Disk 20SC Power Supply

Apple P/N 661-0343



NOTE: The Hard Disk 20SC power supply has three cables that protrude from the case.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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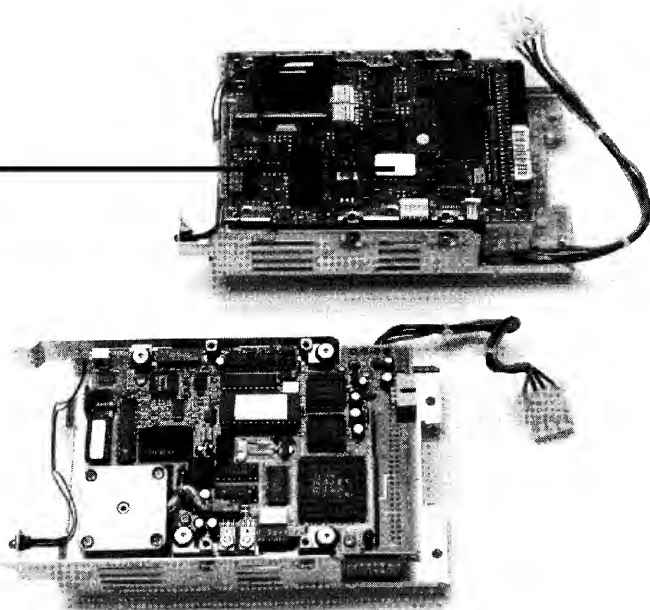
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Hard Disk 20 MB, 3.5"
20 MB, 3.5", SCSI HDA

Apple P/N 661-0373

See Note



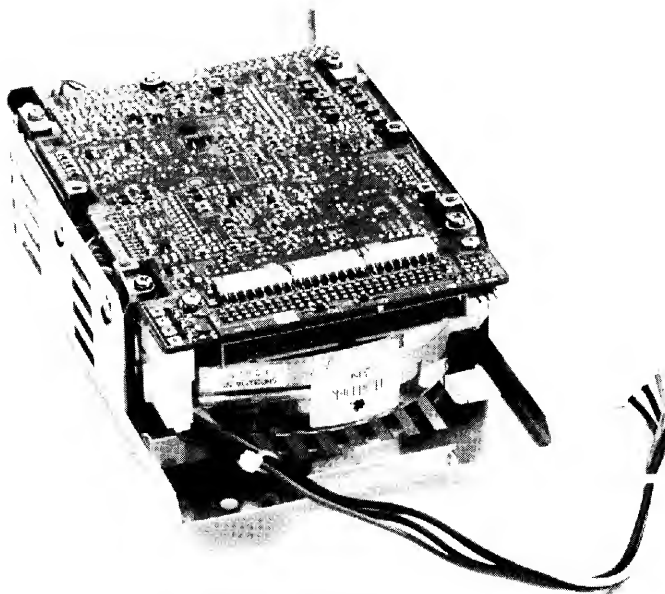
NOTE: The callout in the picture points to the "AXX" label, which substitutes for an Apple logo.

Two different vendors manufacture this HDA. Return both versions in the Macintosh SE frame with LED and power cables, as the picture shows. The non-SCSI 3.5" HDA, 661-0302, has a 26-pin connector; this HDA, 661-0373, has a 50-pin connector.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Hard Disk 20SC
20SC, 3.5", SCSI HDA

Apple P/N 661-0612



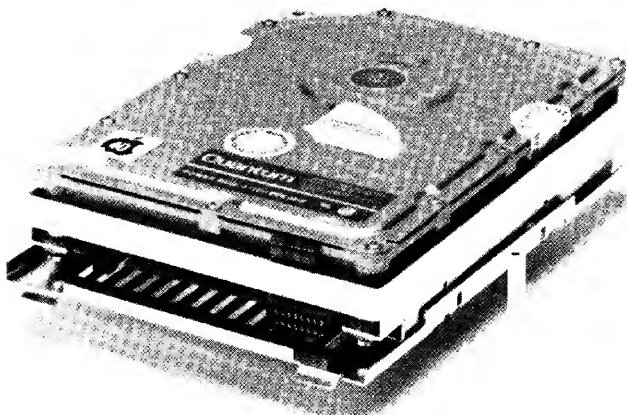
NOTE: Return this HDA in the Macintosh SE frame with LED and power cables, as the picture shows.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 40 HDA, 40 MB, 5.25" SCSI

Apple P/N 661-0391

(When you return P/N 661-0391, Apple ships you P/N 661-1629.)

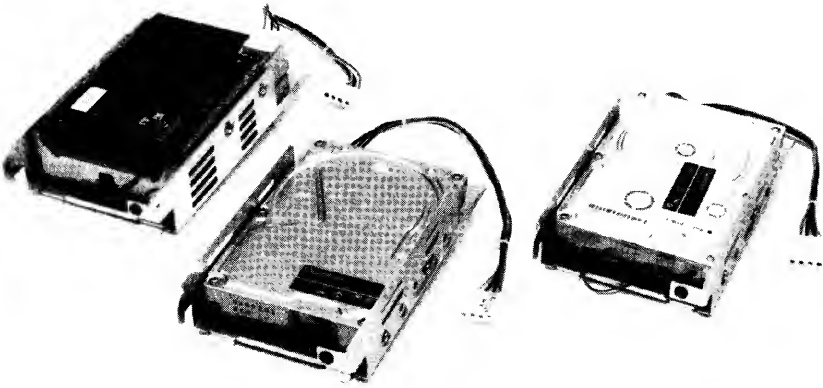


WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 40 HDA, 40 MB, 3.5" SCSI

Apple P/N 661-1629



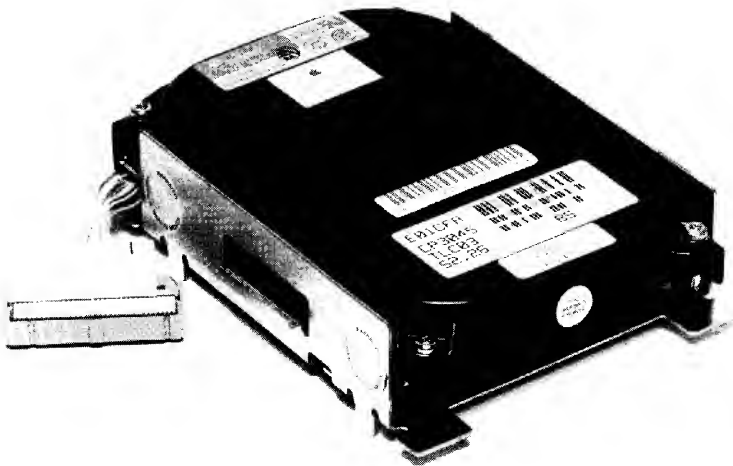
NOTE: There are a variety of ways to return this drive, depending on your CPU. When you must switch carriers between this half-height drive and a replacement 1-inch drive, tightening the damaged drive into the replacement carrier is not possible. Place the damaged drive, unbolted, into the replacement carrier for return to Apple.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 40
HDA, 40 MB, 3.5" SCSI

Apple P/N 661-0540

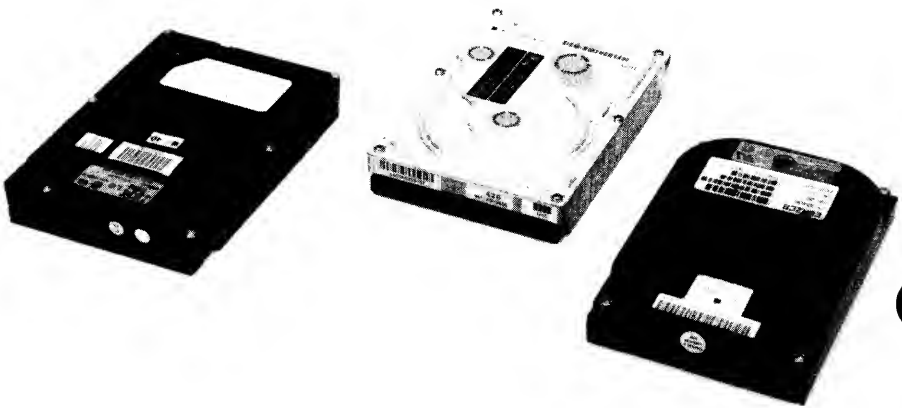


WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 40 HDA, 40 MB, 3.5" SCSI

Apple P/N 661-0614



NOTE: Remove the drive from its carrier before returning the drive to Apple.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

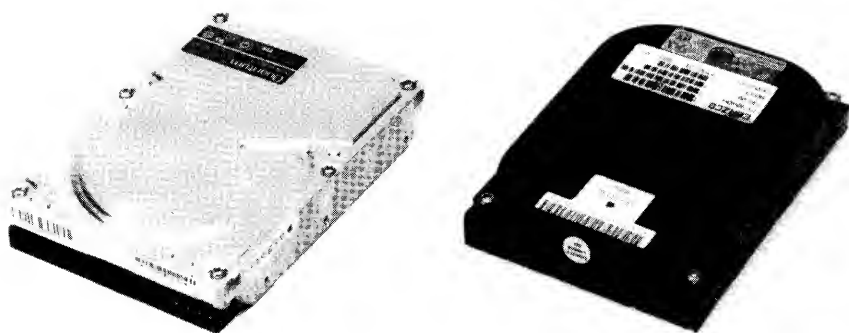
Apple P/N 661-1632



APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 40 HDA, 40 MB, 3.5" SCSI

Apple P/N 661-0112



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 40
HDA, 40 MB, 3.5" SCSI

Apple P/N 661-0773



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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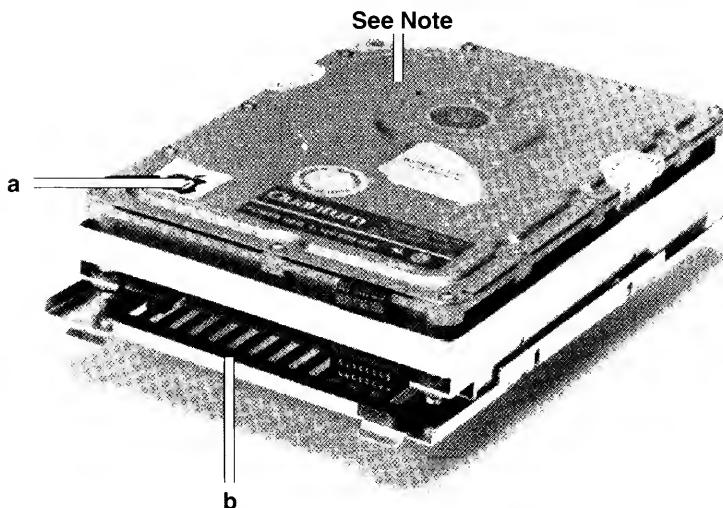
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Apple Hard Disk 80SC 80 MB, 5.25", SCSI HDA

Apple P/N 661-0411

(When you return P/N 661-0411, Apple ships you P/N 661-0600.)

Apple P/N 661-0457 with A/UX



NOTE: The 5.25" 80 MB SCSI with A/UX has an A/UX label located on the upper-left corner.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

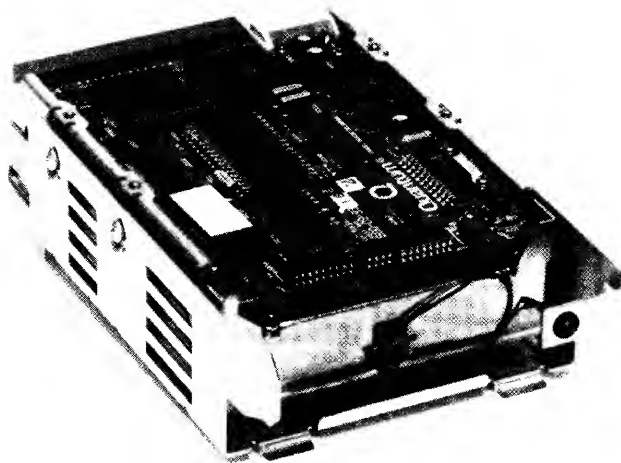
APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 80 80 MB, 3.5", SCSI HDA

Apple P/N 661-0561 with A/UX 1.1

(When you return P/N 661-0561, Apple ships you P/N 661-0613.)

Apple P/N 661-0613 with A/UX 2.0



NOTE: The 80 MB 3.5" SCSI HDA with A/UX v. 1.1 has a Version 1.1 label located on the anodized brass plate, which is on the same end of the HDA as the LED.

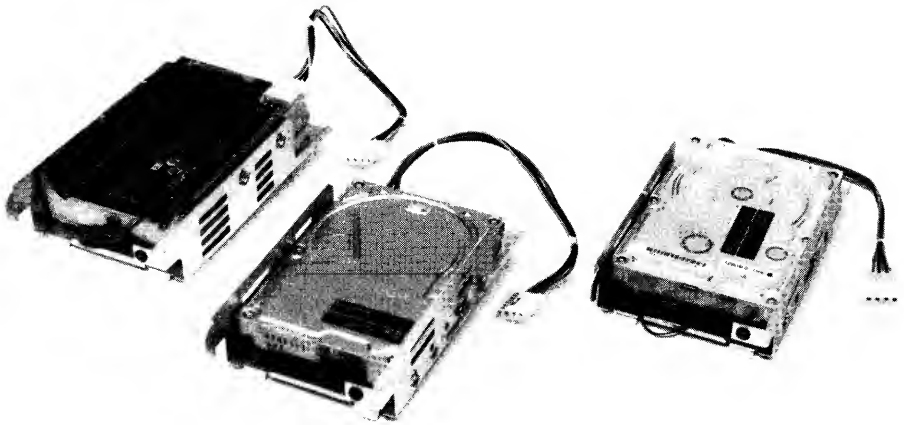
Return the hard drive with the LED cable attached.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

Apple Hard Disk 80
HDA, 80 MB, 3.5" SCSI

Apple P/N 661-0600



NOTE: Return the hard disk with the LED cable attached.

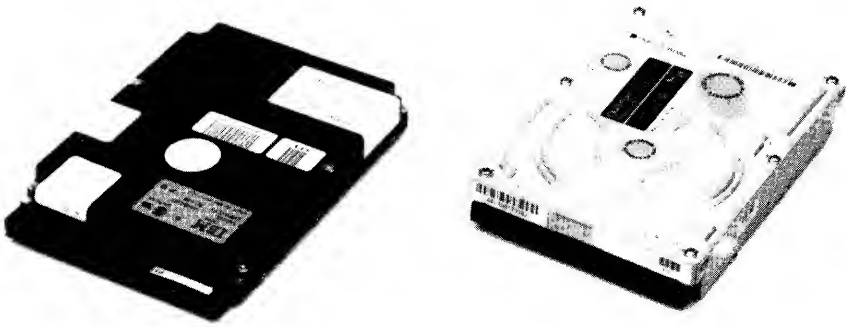
These three drives are completely interchangeable; only the physical appearances differ.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 80 HDA, 80 MB, 3.5", SCSI

Apple P/N 661-0624



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 80 HDA, 80 MB, 3.5" SCSI

Apple P/N 661-0774



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 80 HDA, 80 MB, 2.5" SCSI

Apple P/N 661-1643



See Note



NOTE: To distinguish this 80 MB HDA from Apple P/N 661-0796, look at the upper-left corner of the drive. Apple P/N 661-1643 has a ground tab; Apple P/N 661-0796 does not.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 80 HDA, 80 MB, 2.5" SCSI

Apple P/N 661-0796



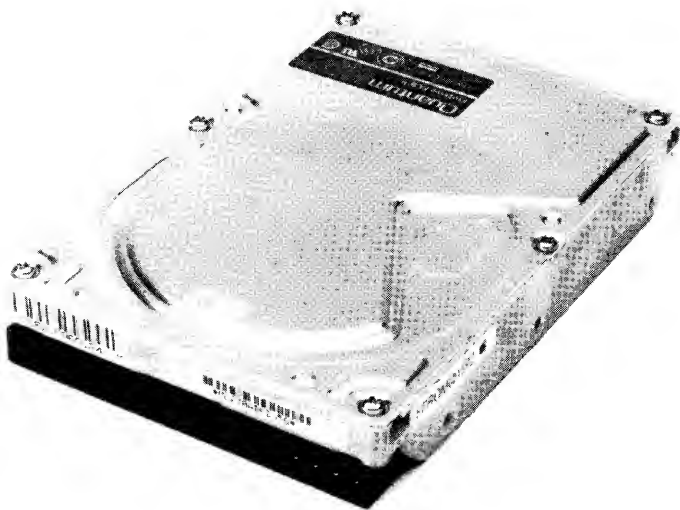
NOTE: To distinguish this 80 MB HDA from Apple P/N 661-1643, look at the upper-left corner of the drive. Apple P/N 661-0796 does not have a ground tab; Apple P/N 661-1643 does.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 80 HDA, 80 MB, 3.5" SCSI

Apple P/N 661-0111



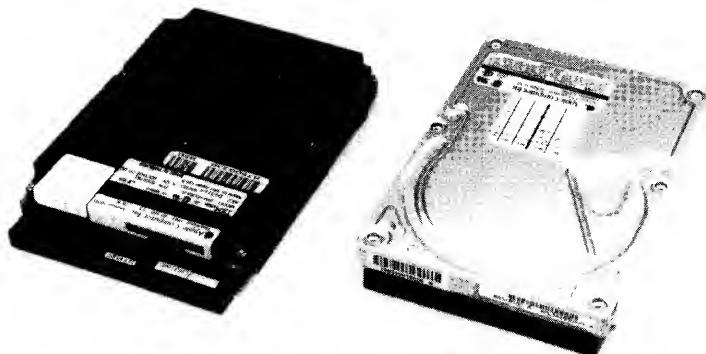
WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 80
HDA, 80 MB, 3.5", SCSI, Internal

Apple P/N 661-0469

Top



Bottom



NOTE: The Apple Hard Disk 80 MB, 160 MB, and 320 MB, 3.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 80 MB, 3.5", SCSI internal drive by the number *80 MB* on the drive label.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 120
HDA, 120 MB, 3.5" SCSI

Apple P/N 661-0021



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 120 HDA, 120 MB, 2.5", SCSI

Apple P/N 661-0772



NOTE: Return this HDA with the screw-in feet attached.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 160
HDA, 160 MB, 2.5" SCSI

Apple P/N 661-0060

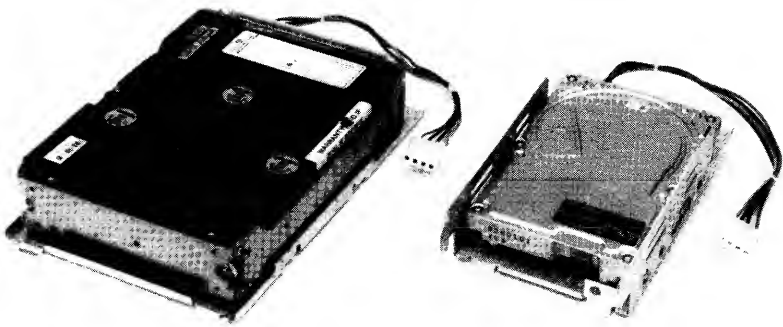


WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 160 HDA, 160 MB, 5.25" SCSI

Apple P/N 661-0601
Apple P/N 661-1638 with A/UX 2.0.1
Apple P/N 661-1640



NOTE: You can identify P/N 661-0601 by the vendor label number P/N 77748206 on the back of the drive.

P/N 661-1638 has a *Version 2.0.1* label on the drive.

P/N 661-1640 has the vendor label number P/N 77748240 on the back of the drive.

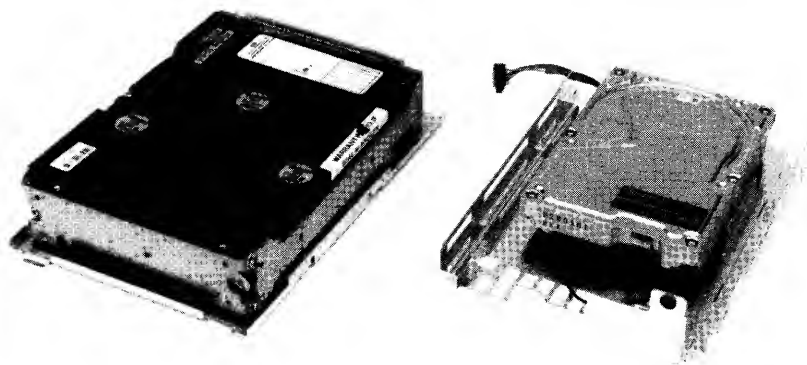
When you return one of these drives, you may receive in exchange a 3.5" drive of the same capacity.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 160
HDA, 160 MB, 5.25" External SCSI

Apple P/N 661-0584



NOTE: You can identify this drive by the vendor label number P/N 77748226 on the back of the drive.

When you return one of these drives, you may receive in exchange a 3.5" drive of the same capacity.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

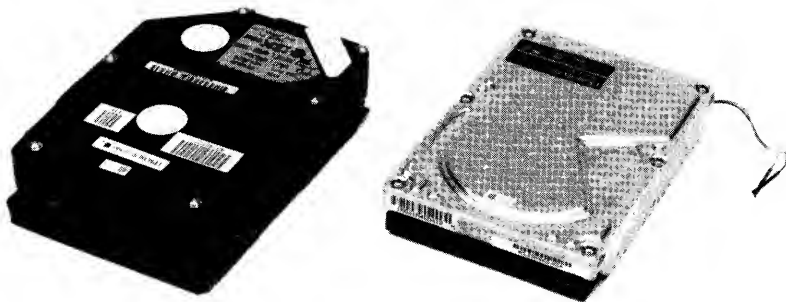
Apple Hard Disk 160 HDA, 160 MB, 3.5" SCSI

Apple P/N 661-0625

(When you return P/N 661-0625, Apple ships you P/N 661-1641.)

Apple P/N 661-1641

Apple P/N 661-1639 with A/UX 2.0.1



NOTE: The 3.5" SCSI HDA with A/UX has a *Version 2.0.1* label on the drive.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 160
HDA, 160 MB, 3.5", SCSI

Apple P/N 661-1647



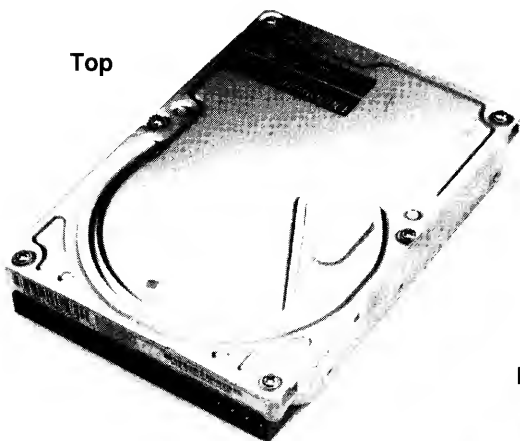
WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

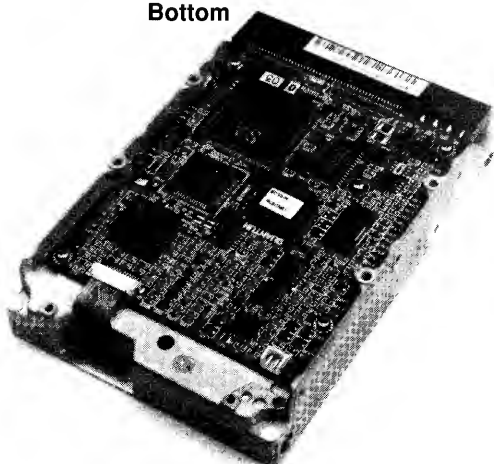
Apple Hard Disk 160
HDA, 160 MB, 3.5", SCSI

Apple P/N 661-1649

Top



Bottom



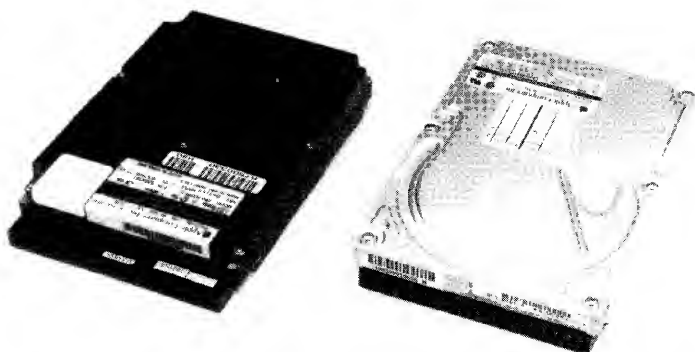
WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

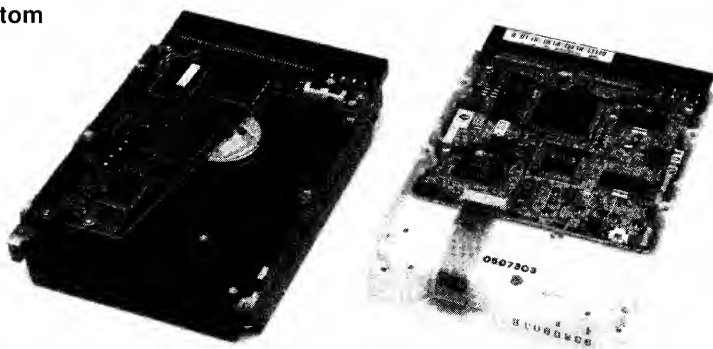
Apple Hard Disk 160
HDA, 160 MB, 3.5", SCSI, Internal

Apple P/N 661-0503

Top



Bottom



NOTE: The Apple Hard Disk 80 MB, 160 MB, and 320 MB, 3.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 160 MB, 3.5", SCSI internal drive by the number *160 MB* on the drive label.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 160 HDA, 160 MB, 2.5", SCSI

Apple P/N 661-0015



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 160 HDA, 160 MB, 2.5", SCSI

Apple P/N 661-0778



NOTE: The Apple Hard Disk 160 MB, 240 MB, and 320 MB, 2.5", SCSI drives are similar. You can identify the Apple Hard Disk 160 MB, 2.5", SCSI drive by the number *160 MB* on the drive label.

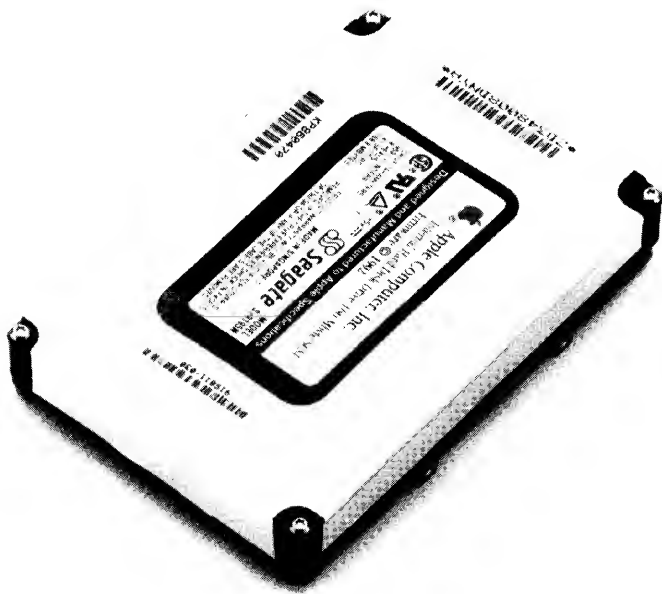
WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.



Apple Hard Disk 200
HDA, 200 MB, 2.5", SCSI

Apple P/N 661-0779



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 230
HDA, 230 MB, 3.5", SCSI

Apple P/N 661-1637



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

**Apple Hard Disk 240
HDA, 240 MB, 2.5" SCSI**

Apple P/N 661-0014



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 240 HDA, 240 MB, 2.5", SCSI

Apple P/N 661-0895



NOTE: The Apple Hard Disk 160 MB, 240 MB, and 320 MB, 2.5", SCSI drives are similar. You can identify the Apple Hard Disk 240 MB, 2.5", SCSI drive by the number *240 MB* on the drive label.

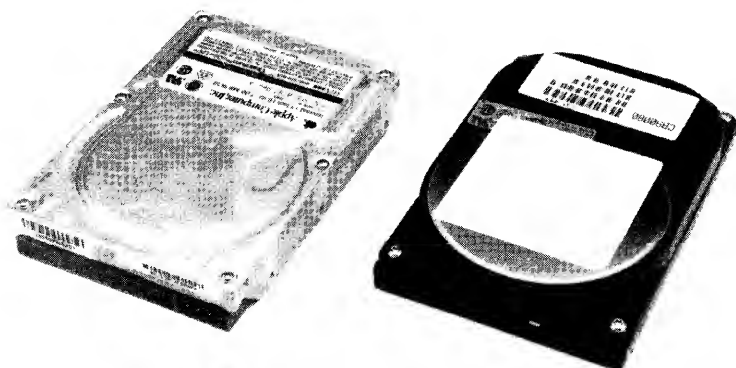
WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

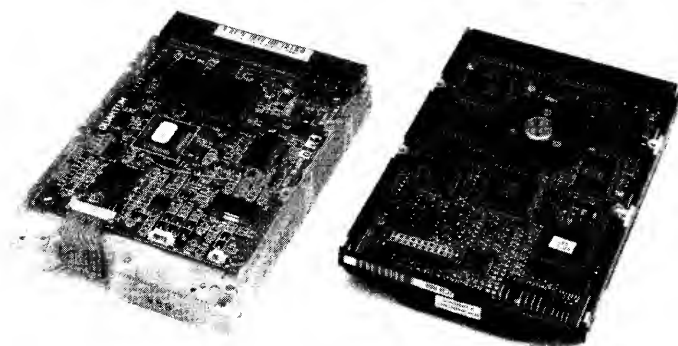
Apple Hard Disk 250
HDA, 250 MB, 3.5", SCSI, Internal

Apple P/N 661-0890

Top



Bottom



NOTE: The Apple Hard Disk 250 MB and 500 MB, 3.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 250 MB, 3.5", SCSI internal drive by the number *250 MB* on the drive label.

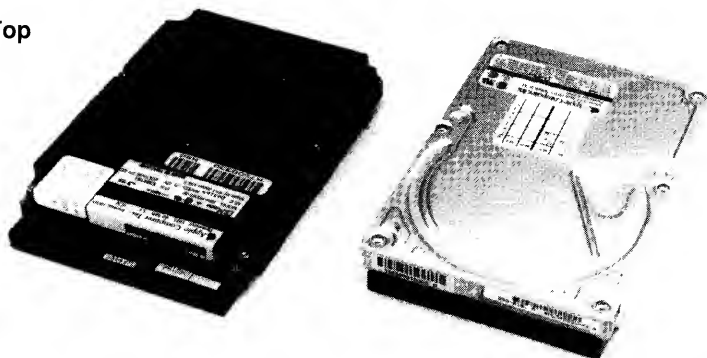
WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 320 HDA, 320 MB, 3.5", SCSI, Internal

Apple P/N 661-0505

Top



Bottom



NOTE: The Apple Hard Disk 80 MB, 160 MB, and 320 MB, 2.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 320 MB, 2.5", SCSI internal drive by the number *320 MB* on the drive label.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

Apple Hard Disk 320 HDA, 320 MB, 2.5", SCSI

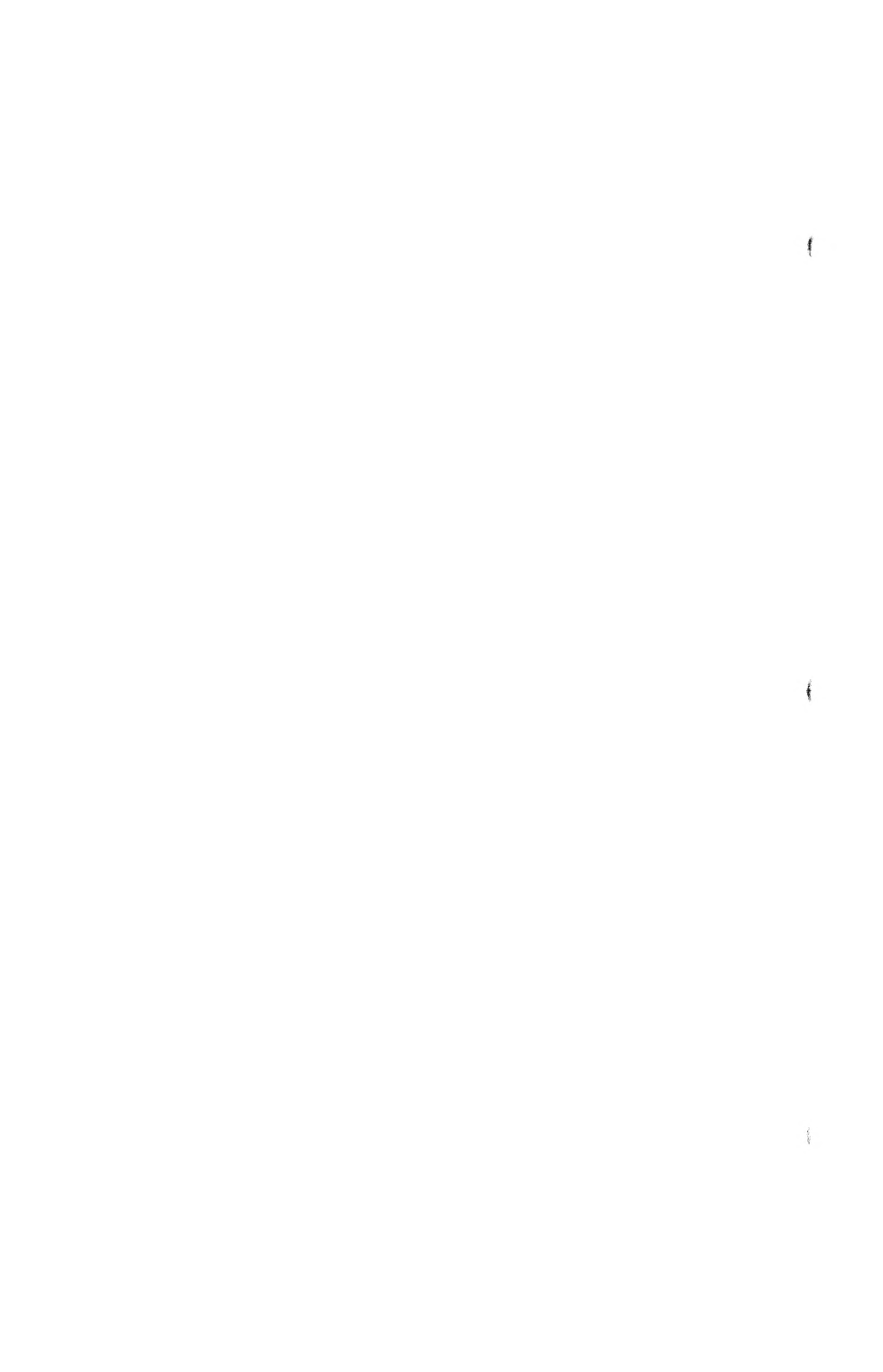
Apple P/N 661-0896



NOTE: The Apple Hard Disk 160 MB, 240 MB, and 320 MB, 2.5", SCSI drives are similar. You can identify the Apple Hard Disk 320 MB, 2.5", SCSI drive by the number *320 MB* on the drive label.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.



Hard Disk 400
400 MB, 3.5", Internal SCSI HDA

Apple P/N 661-1636



APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

**Apple Hard Disk 500
HDA, 500 MB, 3.5", SCSI**

Apple P/N 661-0781



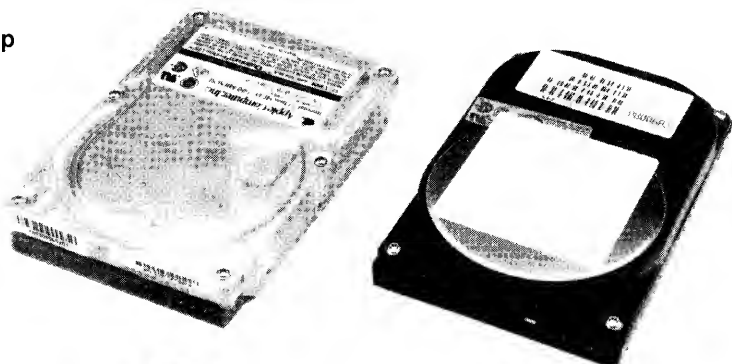
WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

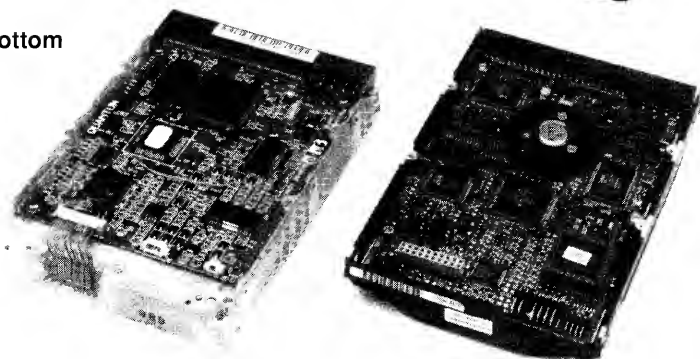
Apple Hard Disk 500 HDA, 500 MB, 3.5", SCSI, Internal

Apple P/N 661-0891

Top



Bottom



NOTE: The Apple Hard Disk 250 MB and 500 MB, 3.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 500 MB, 3.5", SCSI internal drive by the number *500 MB* on the drive label.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

**Apple Hard Disk 1 GB
HDA, 1 GB, 3.5", SCSI**

Apple P/N 661-0780



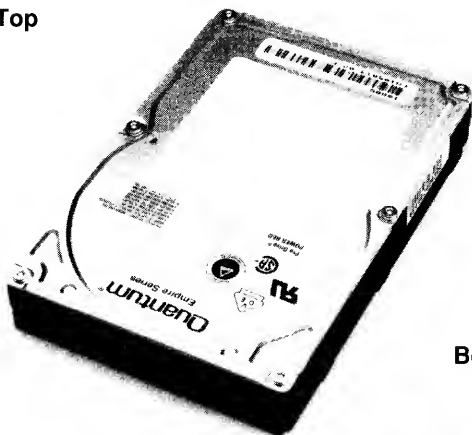
WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

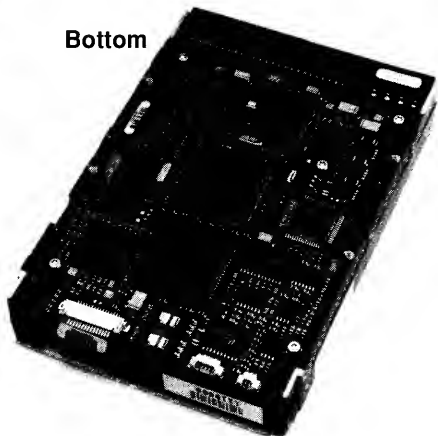
Apple Hard Disk 1 GB HDA, 1 GB, 3.5", SCSI

Apple P/N 661-0065

Top



Bottom

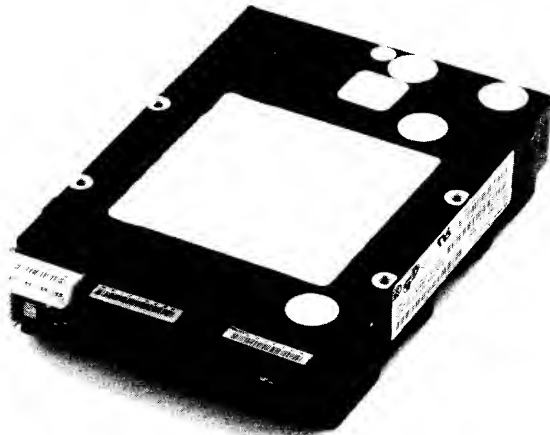


WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

**Apple Hard Disk 2 GB
HDA, 2 GB, 3.5", SCSI**

Apple P/N 661-0832



WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

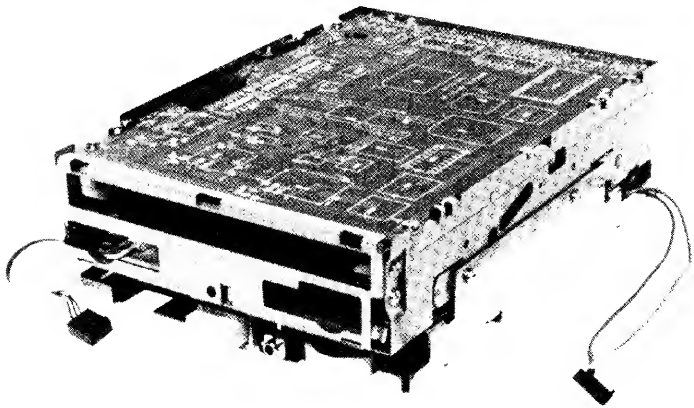
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AppleCD SC Drive Mechanism

Apple P/N 661-0110

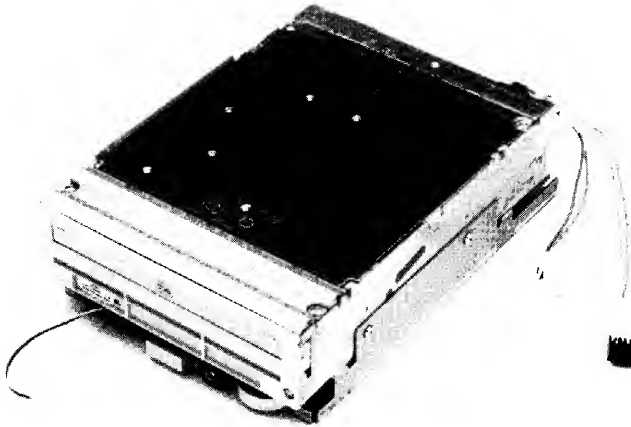


NOTE: Return the AppleCD SC drive mechanism with the SCSI select cable attached.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD SC/SC Plus manual in *Service Source*.

AppleCD SC Plus Drive Mechanism

Apple P/N 661-0671

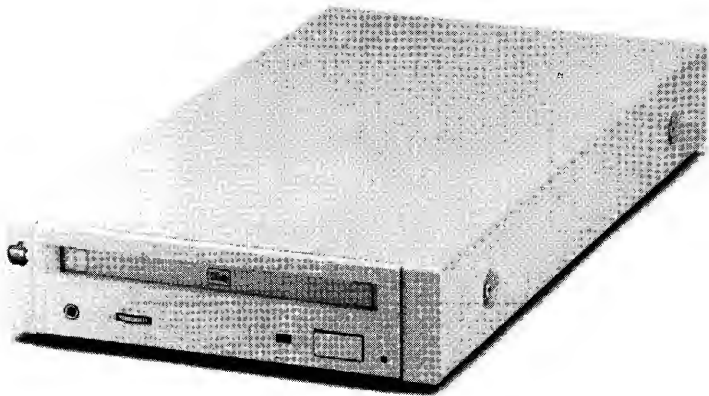


NOTE: Return the AppleCD SC Plus drive mechanism with the LED, SCSI select, and rear audio cables attached.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD SC/SC Plus manual in *Service Source*.

AppleCD 150 Drive

Apple P/N 661-1645



NOTE: Do not return cables, software, or manuals with this module.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in *Service Source*.

AppleCD 150 Drive Mechanism

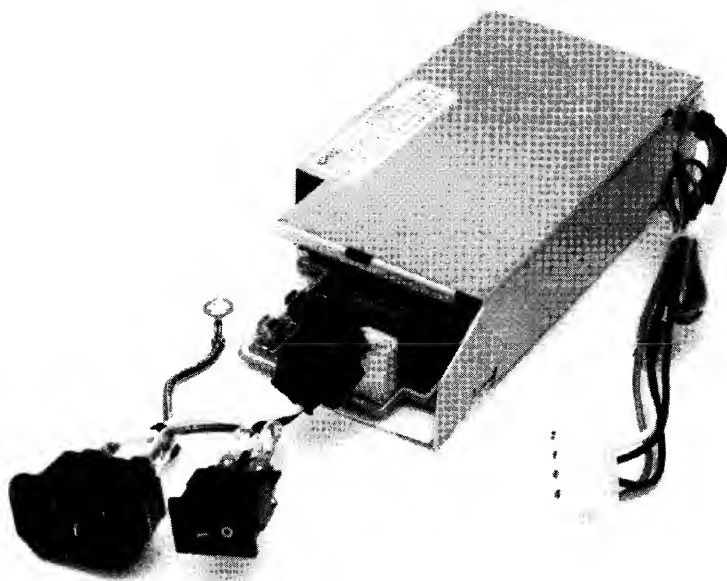
Apple P/N 661-1705



APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in *Service Source*.

**AppleCD 150
Power Supply**

Apple P/N 661-1648



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AppleCD 300 Drive Mechanism

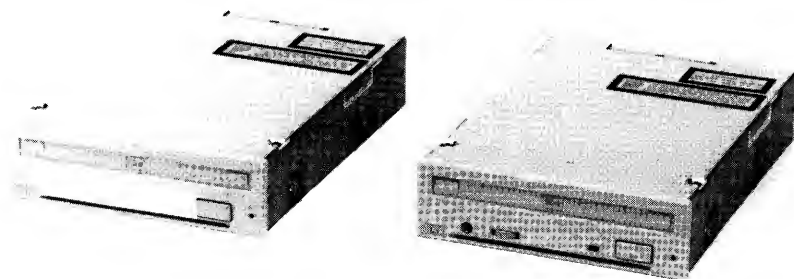
Apple P/N 661-1646



APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in *Service Source*.

AppleCD 300 Drive Mechanism, Internal

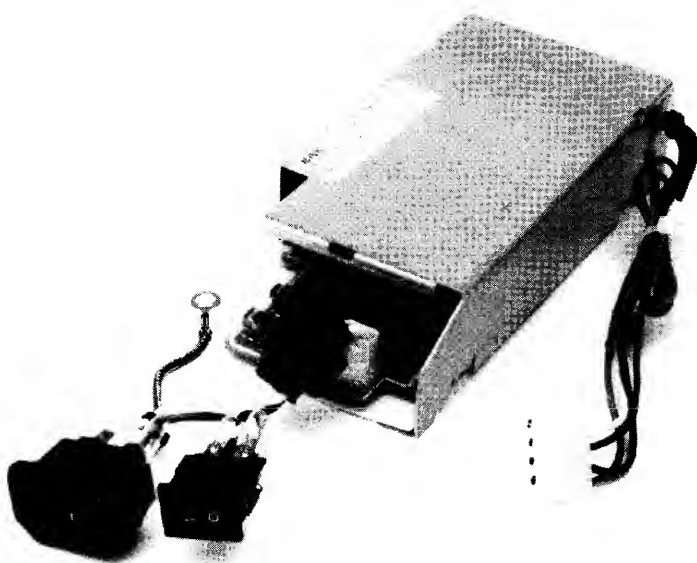
Apple P/N 661-0023



APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in *Service Source*.

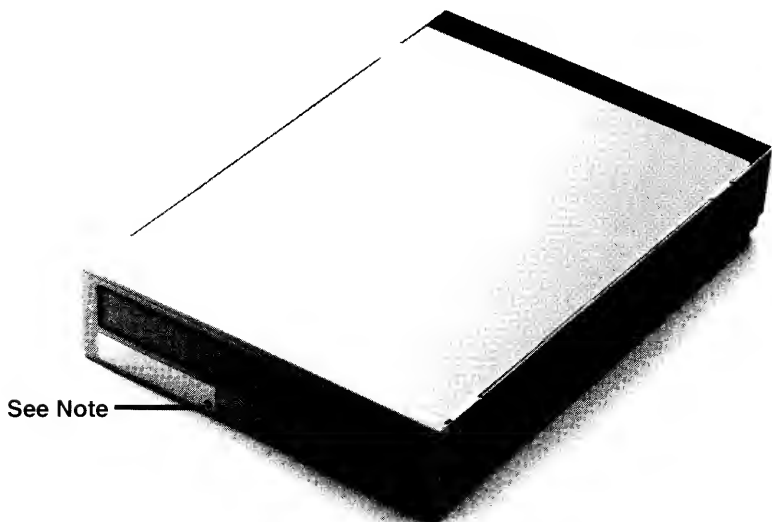
**AppleCD 300
Power Supply**

Apple P/N 661-1706



AppleCD 300 Plus
Drive Mechanism, Internal, Trayload

Apple P/N 661-0222



NOTE: There is no headphone PCB in this location.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

**AppleCD 300e Plus
Drive Mechanism, External**

Apple P/N 661-0225



APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

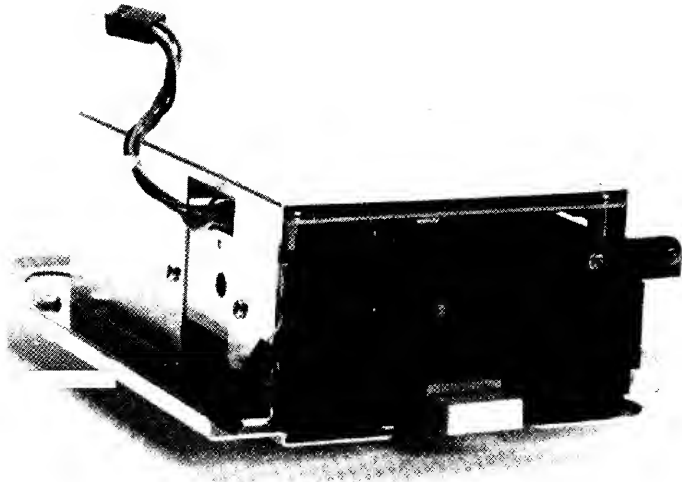
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Apple Tape Backup Mechanism 40 MB

Apple P/N 661-0392



NOTE: Return the Apple tape backup mechanism with the metal frame attached.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the Tape Backup 40SC manual in *Service Source*.

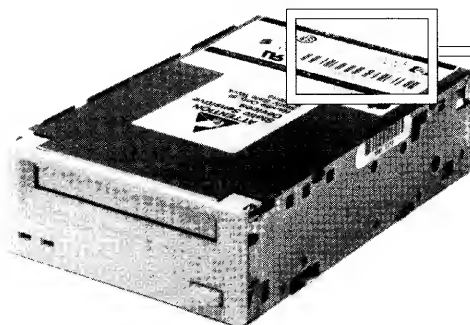
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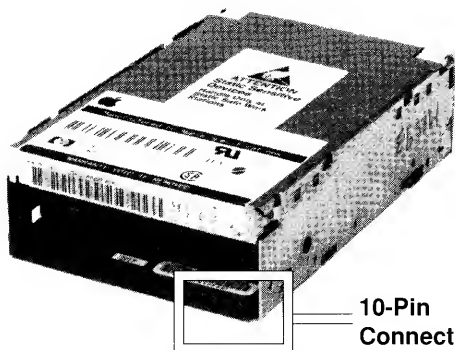
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Apple Tape Drive, 2 GB, DDS-DC SCSI

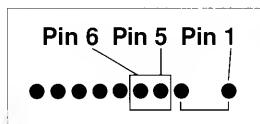
Apple P/N 661-0795



Note: The Apple 2 GB, DDS-DC, and the Apple DAT, DDS-2, 120M tape drives are similar. You can identify the Apple 2 GB, DDS-DC SCSI tape drive by the number *2 GB* on the drive label.



**10-Pin
Connector**



AWS 95 NOTE: When you return a defective drive to Apple, remove the SCSI select cable and switch, drive adapter plate, and carrier, if present.

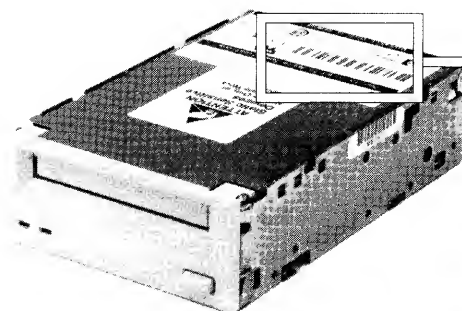
AWS 80 NOTE: When you return a defective drive to Apple, transfer the SCSI select shorting jumper on rear of the drive, if present, from the defective drive to the service replacement drive. The jumper shorts pin 5 and pin 6 on the ten-pin connector to select the SCSI ID number 2.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

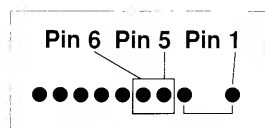
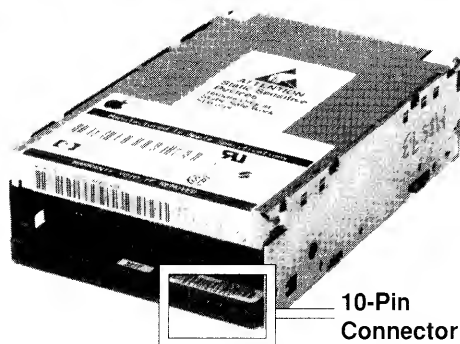
APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

Apple Tape Drive, DAT, DDS-2, 120M

Apple P/N 661-0039



Note: The Apple DAT, DDS-2, 120M and the Apple 2 GB, DDS-DC SCSI tape drives are similar. You can identify the Apple DAT, DDS-2, 120M tape drive by the number 4 GB on the drive label.



10-Pin
Connector

AWS 9150 NOTE: When you return a defective drive to Apple, remove the SCSI select cable and switch, drive adapter plate, and carrier, if present.

AWS 8150 NOTE: When you return a defective drive to Apple, transfer the SCSI select shorting jumper on rear of the drive, if present, from the defective drive to the service replacement drive. The jumper shorts pin 5 and pin 6 on the ten-pin connector to select the SCSI ID number 2.

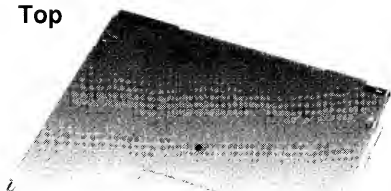
WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

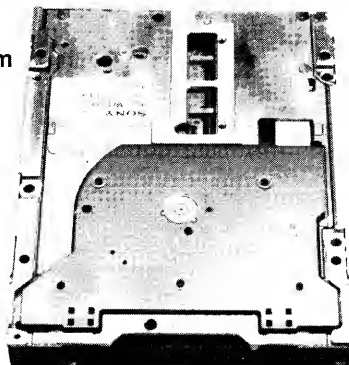
PowerBook 520/540 Series Floppy Drive Mechanism

Apple P/N 661-0061

Top



Bottom



NOTE: The PowerBook 520/540 floppy drive mechanism does not include the thin, metal ground plate.

WARRANTY: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

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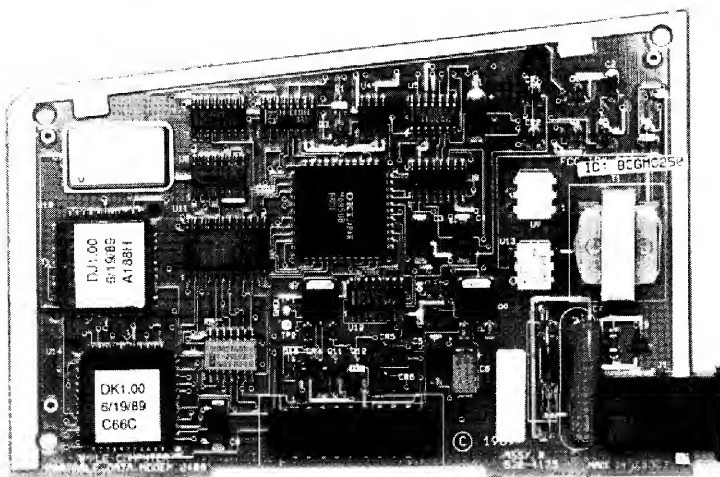
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Data Communications

**Macintosh Portable
Domestic Modem, Internal**

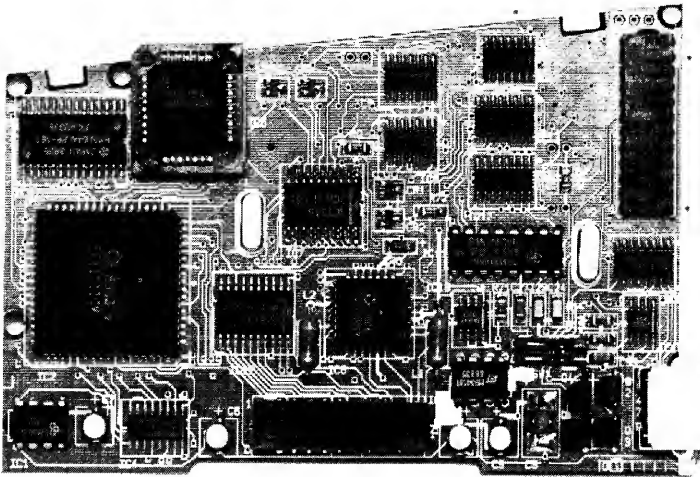
Apple P/N 661-0468



Macintosh Portable Int'l XP 2400 Card

Apple P/N 661-0465

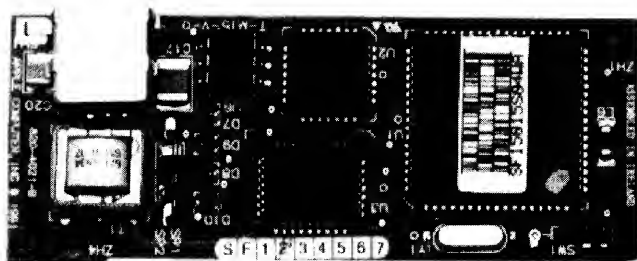
(When you return P/N 661-0465, Apple ships you P/N 661-0623.)



NOTE: This item is not available in the United States.

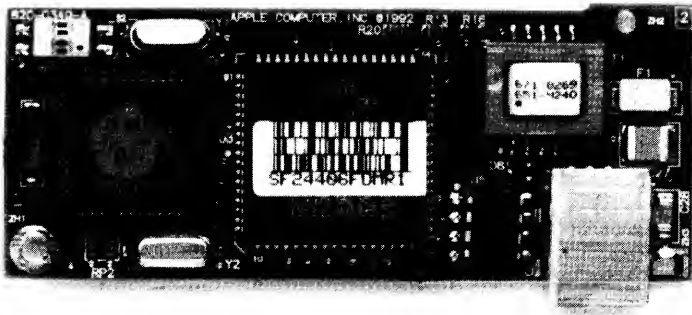
**PowerBook 100/140/145/160/165c/170/180c
Domestic Modem, 2400 Baud, Internal**

Apple P/N 661-1621



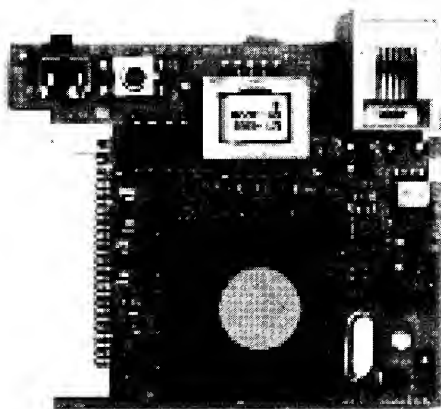
PowerBook 160/165/165c/180/180c
Express Modem, 14.4 Baud

Apple P/N 661-0786



PowerBook Duo 210/230
Modem, 14.4 Baud

Apple P/N 661-1665 (Domestic)
Apple P/N 661-1662 (International)



NOTE: The PowerBook Duo 210/230 domestic modem has an RJ-11 connector. The PowerBook Duo 210/230 international modem has a Mini DIN-8 (8-pin) connector.

In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers must contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

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**PowerBook 520/540 Series
Modem, International**

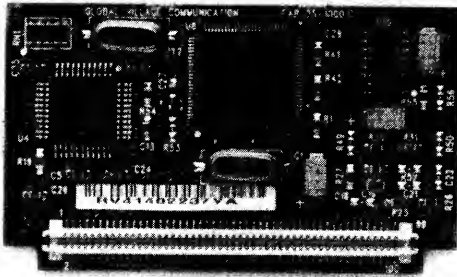
Apple P/N 661-0106

**Photograph not available
at the time of printing**

NOTE: The US and International versions of the PowerBook 520/540 Series modem are similar. The PowerBook 520/540 Series US modem has the label "Global Village Communication" printed at the top edge of the modem; the International version does not.

PowerBook 520/540 Series Modem, US

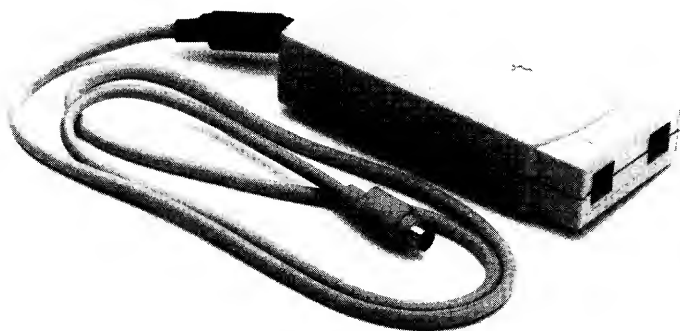
Apple P/N 661-0107



NOTE: The US and International versions of the PowerBook 520/540 Series modem are similar. You can identify the PowerBook 520/540 Series US modem by the label "Global Village Communication" printed at the top edge of the modem.

**GeoPort
Telecom Adapter**

Apple P/N 661-1703



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Printers

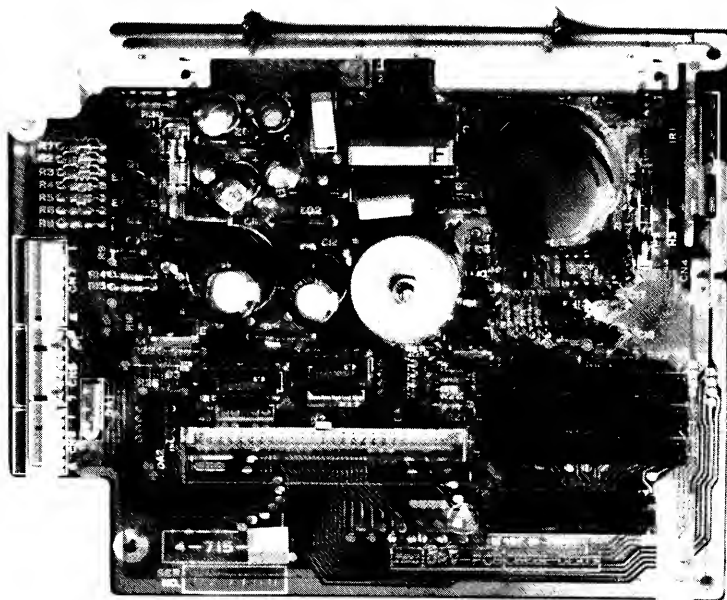
**ImageWriter II and II/L
Print Head**

Apple P/N 661-0316



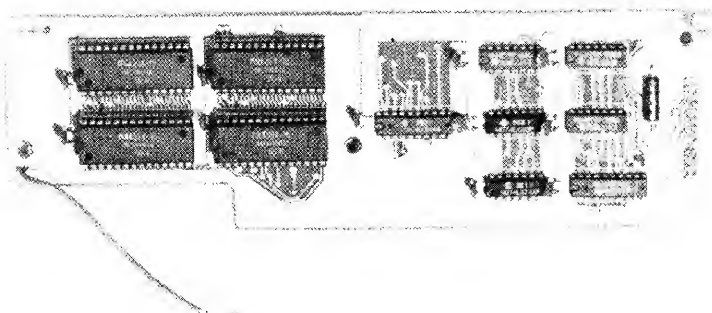
ImageWriter II Drive Board

Apple P/N 661-0303



ImageWriter II
32K Option Board

Apple P/N 661-0319

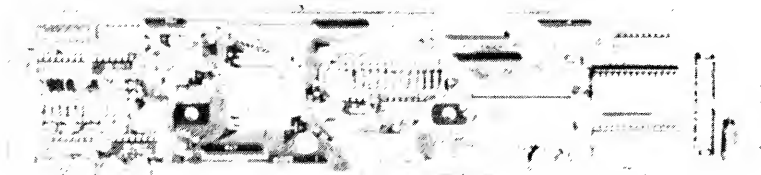


ImageWriter II

Main Logic Board

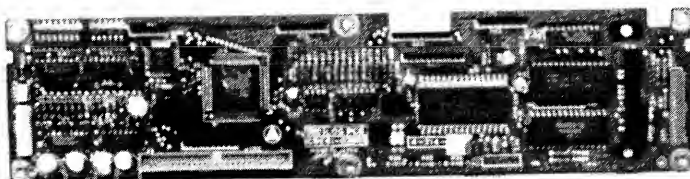
Apple P/N 661-0304

(When you return P/N 661-0304, Apple ships you P/N 661-0413.)



ImageWriter II Main Logic Board

Apple P/N 661-0413

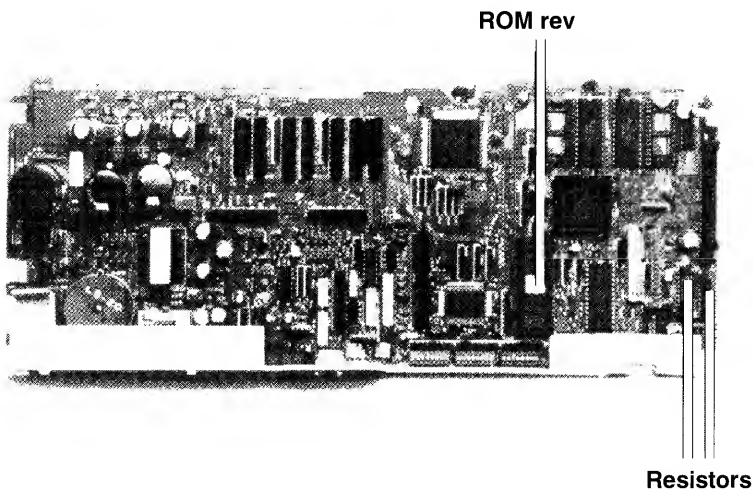


NOTE: These two versions of the logic board are functionally equivalent and interchangeable. When returning the bottom logic board to Apple, please be sure to include the daughterboard.

ImageWriter LQ Main Logic Board

Apple P/N 661-0404

(When you return P/N 661-0404, Apple ships you P/N 661-0563.)



NOTE: ROM Revision is noted on the chip and/or on its resistor between IC22 and IC23:

661-0404 is Rev. 01

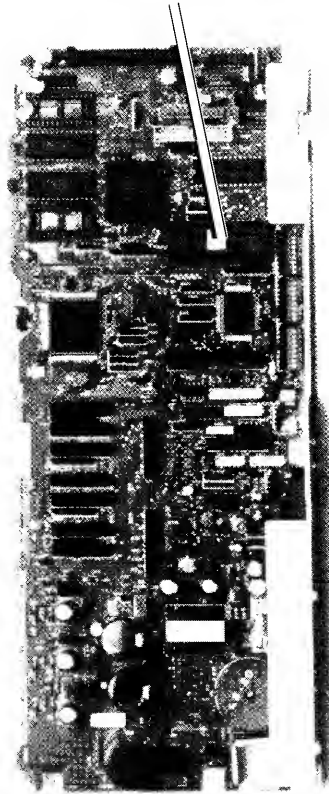
661-0541 is Rev. 02

661-0563 is Rev. 03

ImageWriter LQ
Main Logic Board

Apple P/N 661-0563

See Note



NOTE: This revision board has ROM Rev. 03 (EA006-78300) and/or two resistors across IC23.

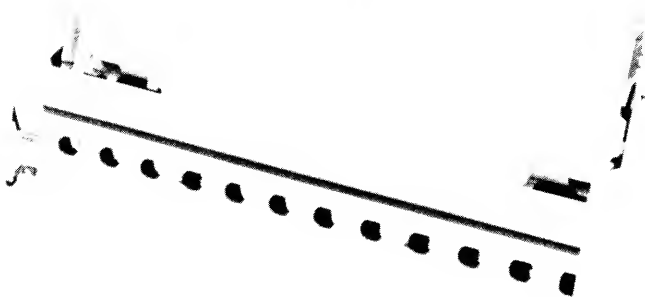
**ImageWriter LQ
Print Head**

Apple P/N 661-0405



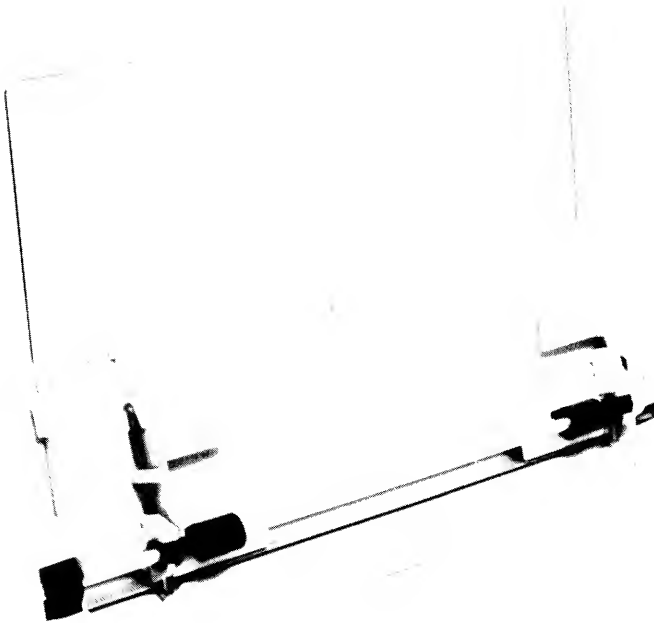
ImageWriter LQ
Cut SheetFeeder Single Bin

Apple P/N 661-0446



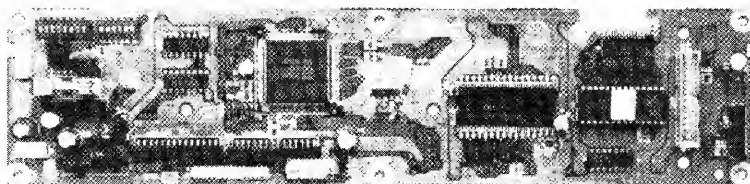
ImageWriter LQ
Cut SheetFeeder Extension Bin

Apple P/N 661-0447



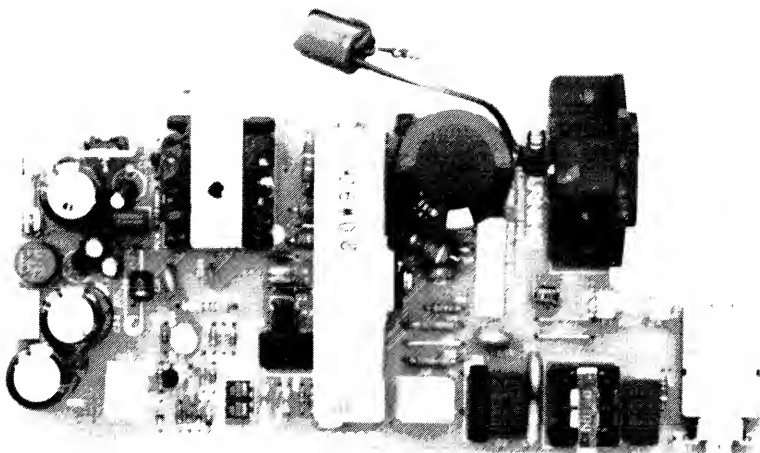
**ImageWriter II/L
Main CPU PCB**

Apple P/N 661-0581



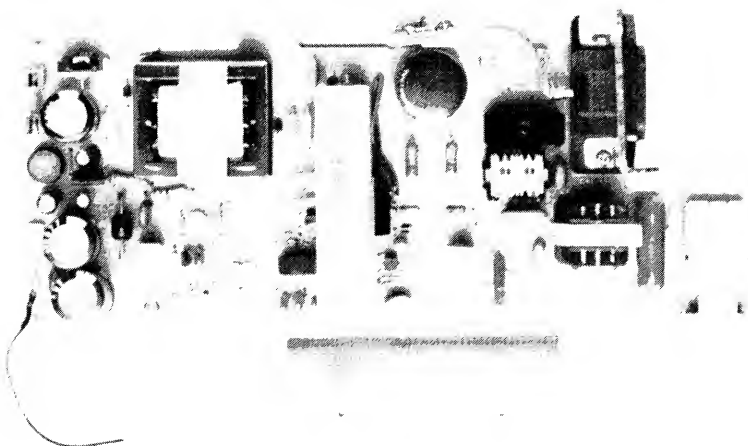
ImageWriter II/L
Power Supply Board (110/120 V)

Apple P/N 661-0582



ImageWriter II/L
Power Supply Board (220/240 V)

Apple P/N 661-1606



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LaserWriter/LaserWriter Plus I/O Board

Apple P/N 661-0270

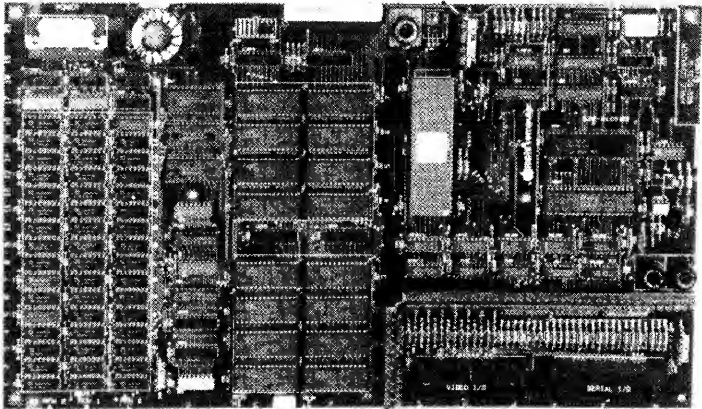
Sixteen 256K ROMs or eight 512K ROMs

(When you return P/N 661-0270, Apple ships you P/N 661-0436.)

Apple P/N 661-0324

Sixteen 512K ROMs

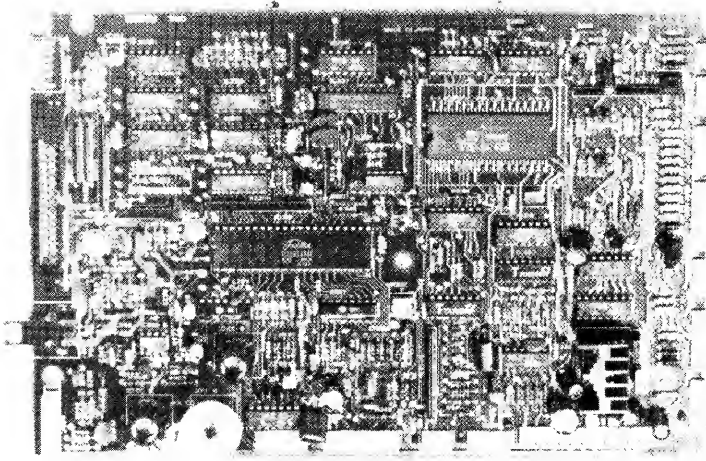
(When you return P/N 661-0324, Apple ships you P/N 661-0437.)



NOTE: The part numbers for the sixteen 256K ROMs are 34x-0297, 34x-0309 through 34x-0323. The part numbers for the eight 512K ROMs are 34x-0081 through 34x-0088. The part numbers for the sixteen 512K ROMs are 34x-0089 through 34x-0104. For all the above, x=1 or 2.

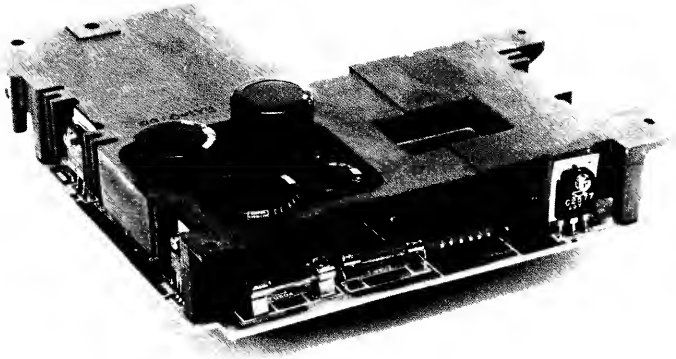
**LaserWriter
DC Controller**

Apple P/N 661-0267



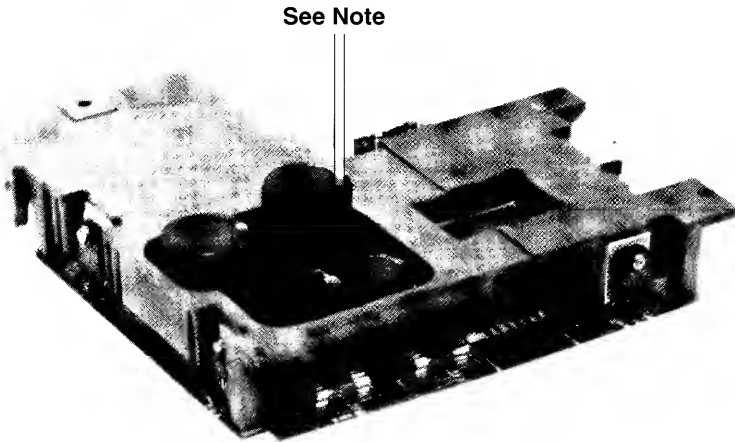
LaserWriter
Power Supply/Motor Drive (110 V)

Apple P/N 661-0273



LaserWriter
Power Supply/Motor Drive (220 V)

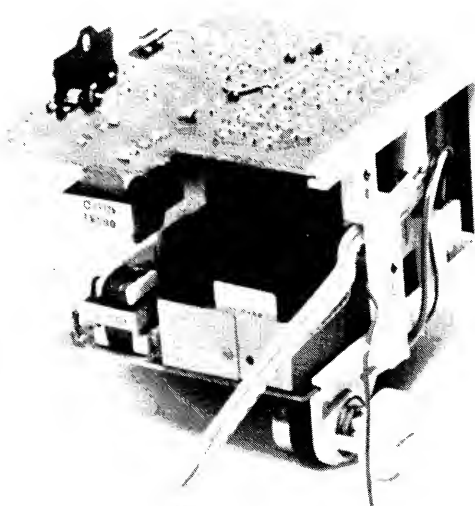
Apple P/N 661-0274



NOTE: Presence of a relay in the above position indicates a 220/240 V power supply/motor driver.

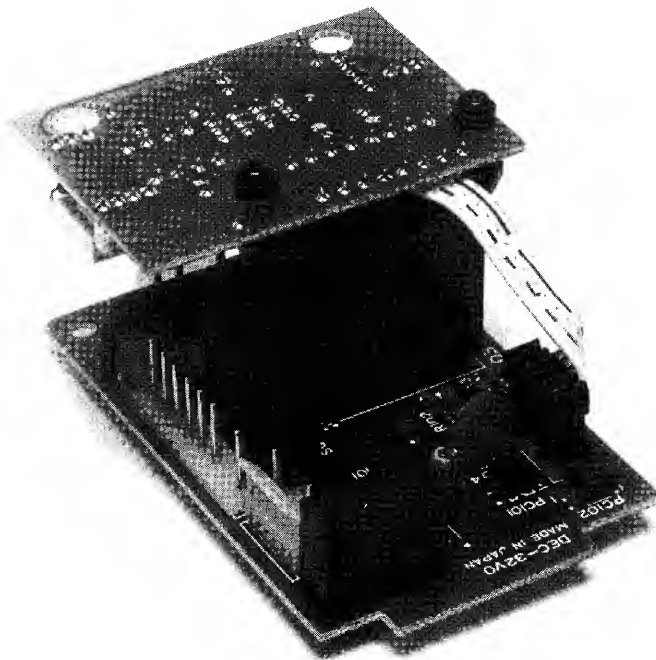
LaserWriter
High-Voltage Power Supply (110 V)

Apple P/N 661-0266



**LaserWriter
Driver (110 V)**

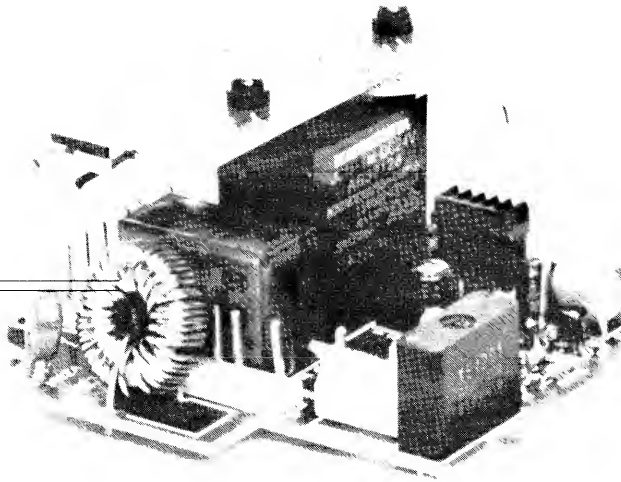
Apple P/N 661-0268



**LaserWriter
Driver (220 V)**

Apple P/N 661-0269

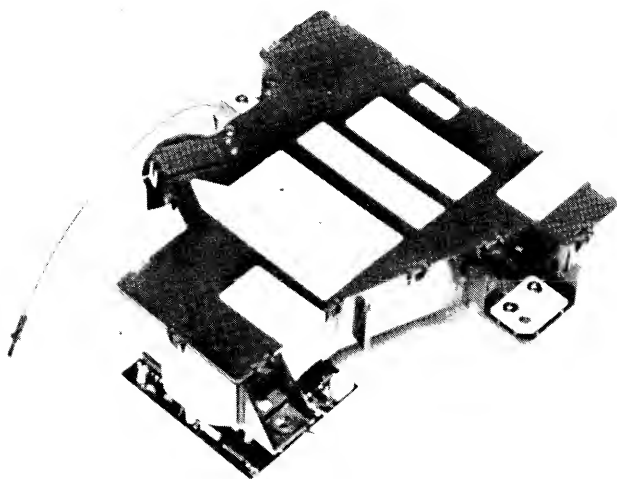
See Note



NOTE: Presence of a choke in the above position indicates a 220/240 V driver.

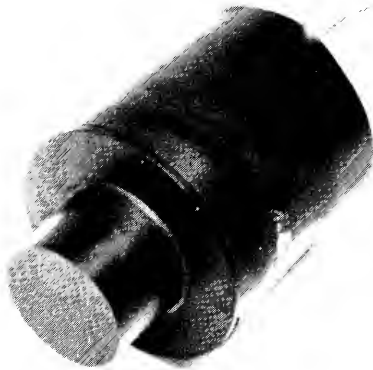
**LaserWriter
Scanner Unit, 300 dpi**

Apple P/N 661-0278



**LaserWriter
Laser Unit**

Apple P/N 661-0277



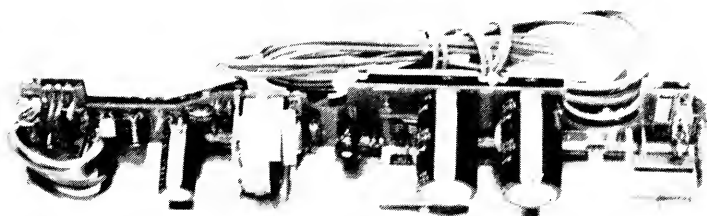
See Note



NOTE: To prevent ESD damage, use the shorting connector from the service module to short pin 4 to pin 6 before shipping the module.

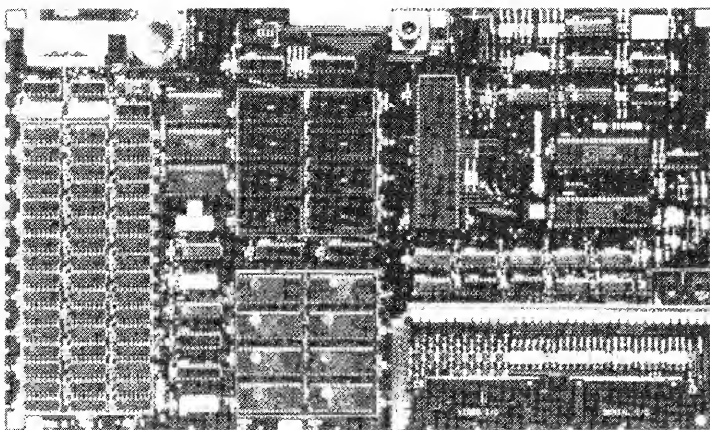
**LaserWriter
I/O PCB Power Supply**

Apple P/N 661-0323



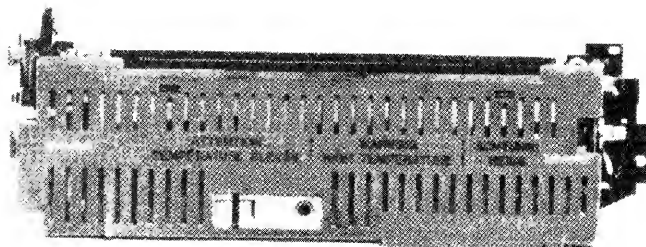
**LaserWriter
I/O Board**

**Apple P/N 661-0436
Eight 512K ROMs or four 1MB ROMs**



LaserWriter
Fuser Assembly (115 V)

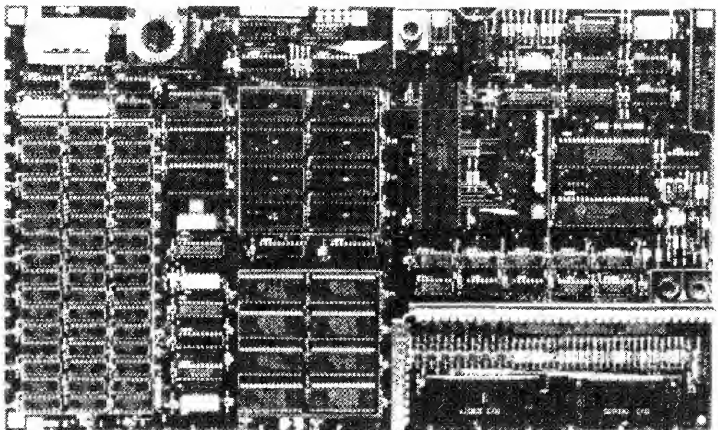
Apple P/N 661-0450



NOTE: Remove the cleaning felt before returning the fuser assembly to Apple.

**LaserWriter Plus
I/O Board**

Apple P/N 661-0437
Sixteen 512K ROMs or eight 1MB ROMs



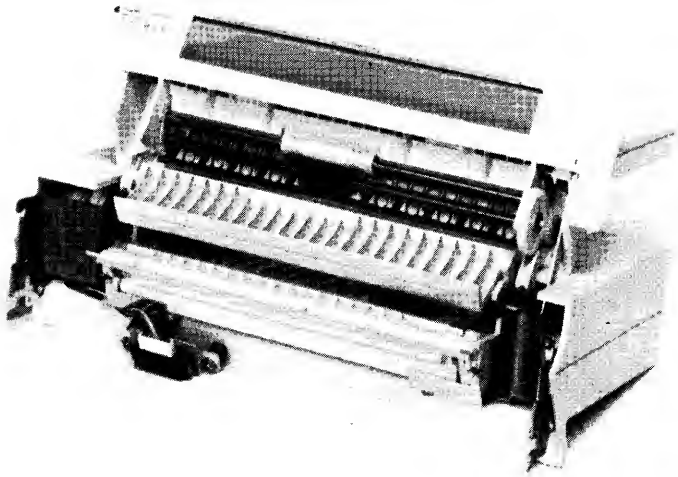
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**ImageWriter II and II/L
Sheet Feeder**

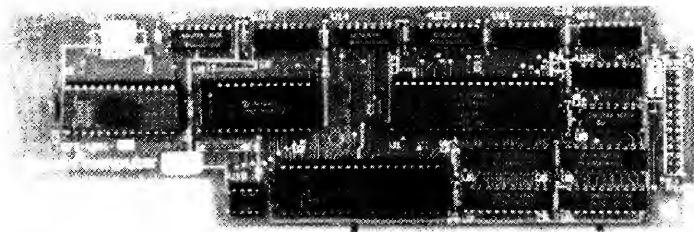
**Apple P/N 661-0329 (White)
Apple P/N 661-0401 (Platinum)**



NOTE: The ImageWriter II/L is available in platinum only.

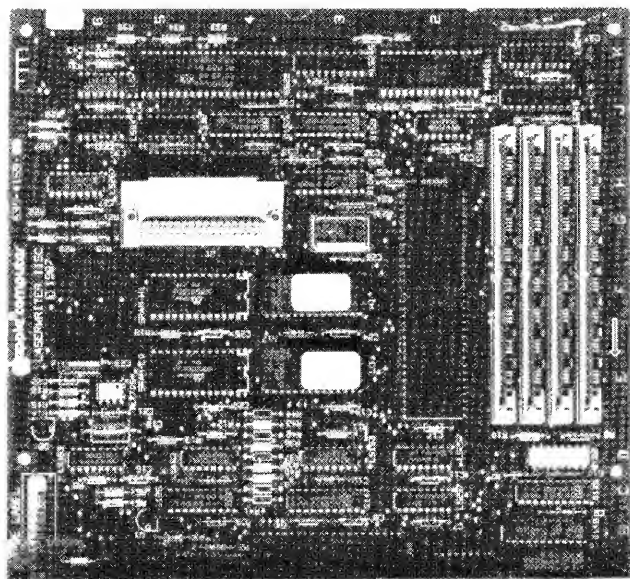
**ImageWriter II, II/L, and LQ
Local Talk Option Card**

Apple P/N 661-0325



LaserWriter II
SC Board

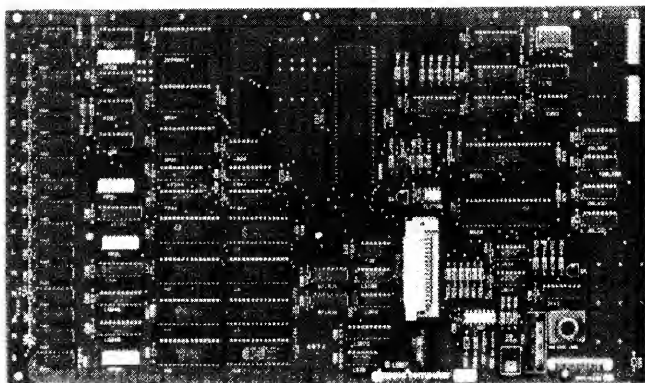
Apple P/N 661-0428



NOTE: You must return the four 256K SIMMs with this board.

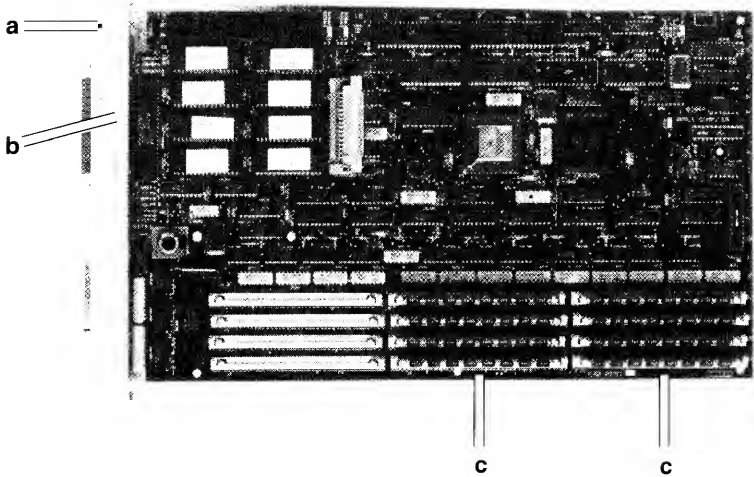
LaserWriter II NT Board

Apple P/N 661-0438



LaserWriter II NTX Board

Apple P/N 661-0429

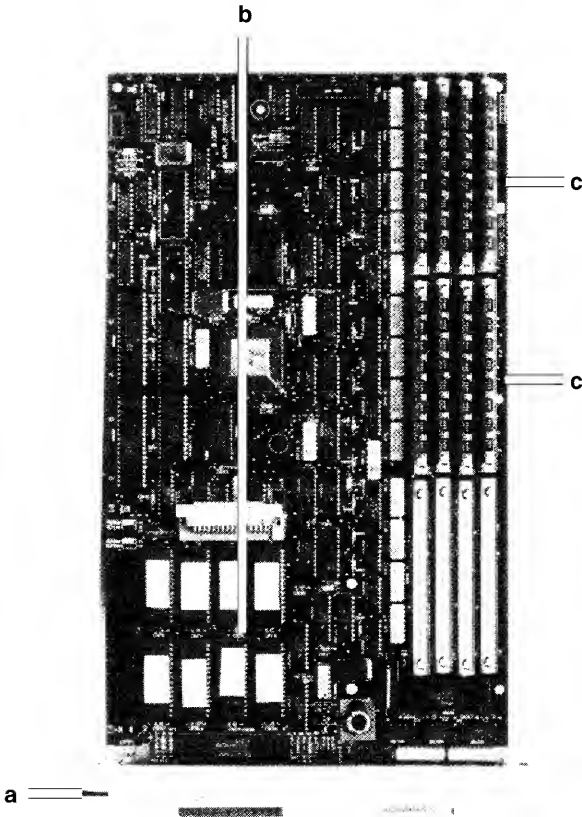


NOTE:

- a) The marketing number on the bracket label can be M6004 or M6004/A.
- b) Apple P/N on ROMs must be 34x-0560 through 34x-0567 (where x = 1 or 2). If ROMs are 34x-0711 through 34x-0718, see module P/N 661-1605.
- c) You must return the eight 256K SIMMs with this board.

LaserWriter II NTX I/O Board (Rev. 3.0)

Apple P/N 661-1605

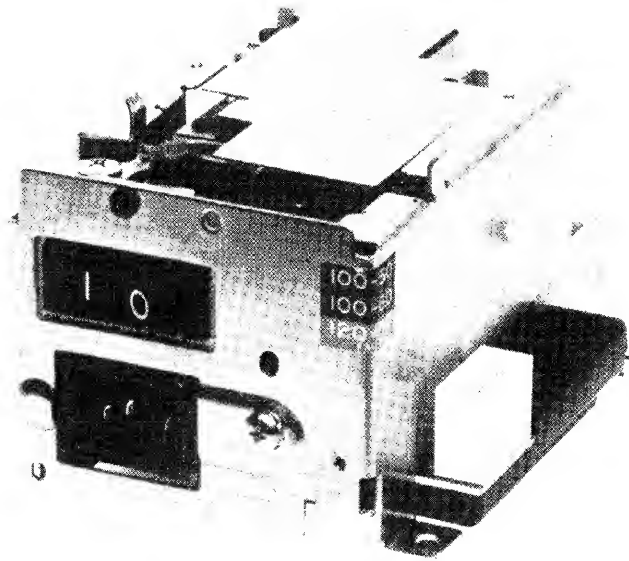


NOTE:

- a) The marketing number on the bracket label can be M6004 or M6004/A.
- b) Apple P/N on ROMs must be 34x-0711 through 34x-0718 (where x = 1 or 2). If ROMs are 34x-0560 through 34x-0567, see module P/N 661-0429.
- c) You must return the eight 256K SIMMs with this board.

LaserWriter II
Power Supply Block

Apple P/N 661-0427 (110 V)
Apple P/N 661-0443 (220/240 V)



NOTE: The sticker indicates the module voltage.

LaserWriter II
High-Voltage Power Supply

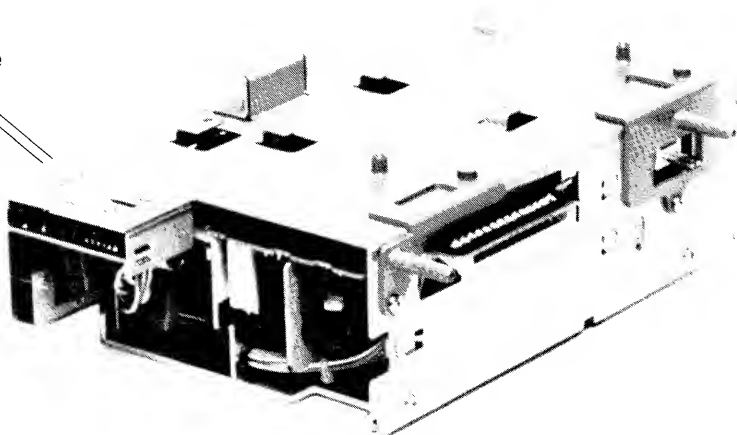
Apple P/N 661-0425



LaserWriter II
DC Power Supply

Apple P/N 661-0424 (110 V)
Apple P/N 661-0442 (220/240 V)

See Note

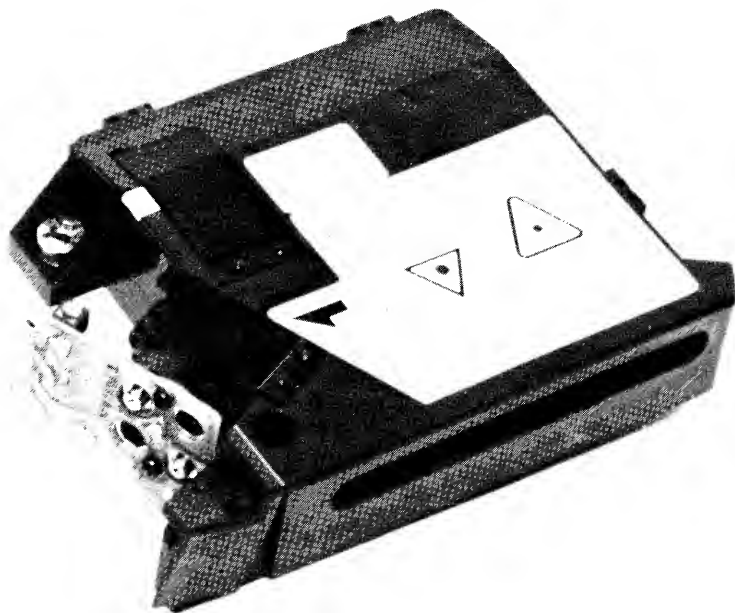


NOTE: The sticker on top indicates the module voltage.

Remove the distribution PCB and cover (as shown) before you return this module to Apple.

LaserWriter II
Laser/Scanner Unit

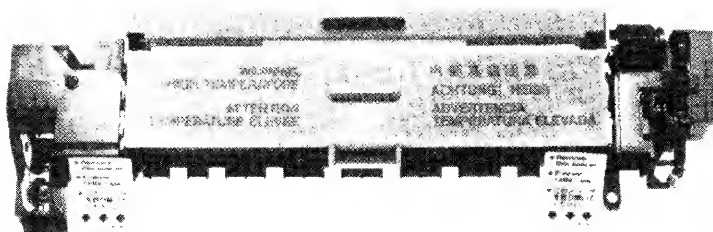
Apple P/N 661-0423



NOTE: Remove the optical fiber and laser harness cables before you return the unit to Apple.

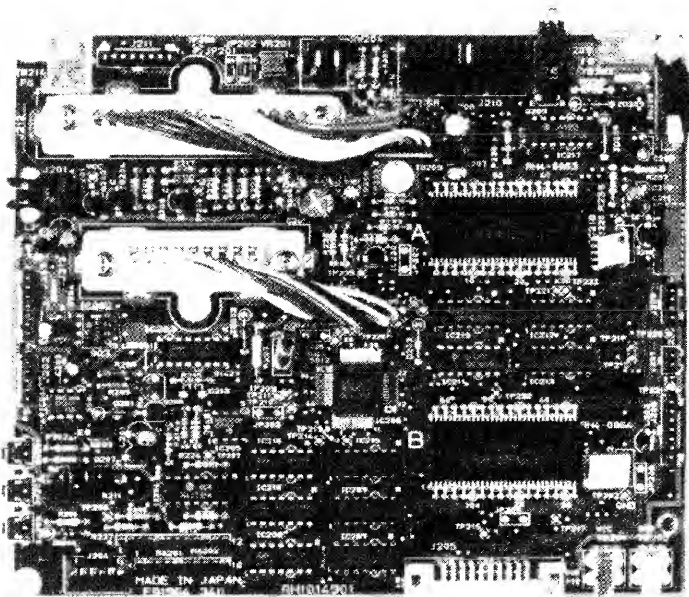
LaserWriter II
Fuser Assembly

Apple P/N 661-0440 (110 V)
Apple P/N 661-0444 (220/240 V)



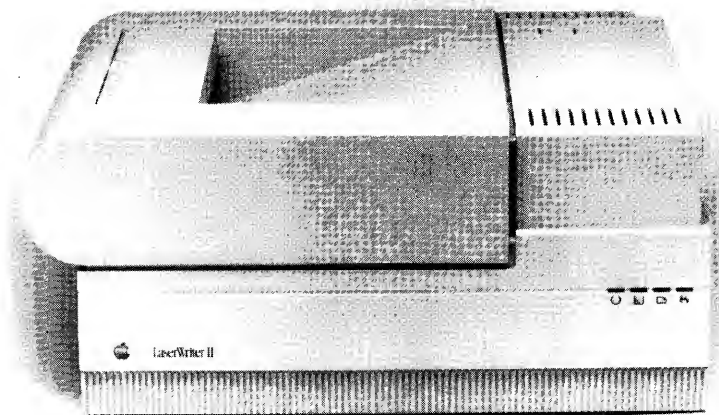
LaserWriter II
DC Controller Board

Apple P/N 661-0426



**LaserWriter II
Engine (Whole Unit)**

Apple P/N 661-0894

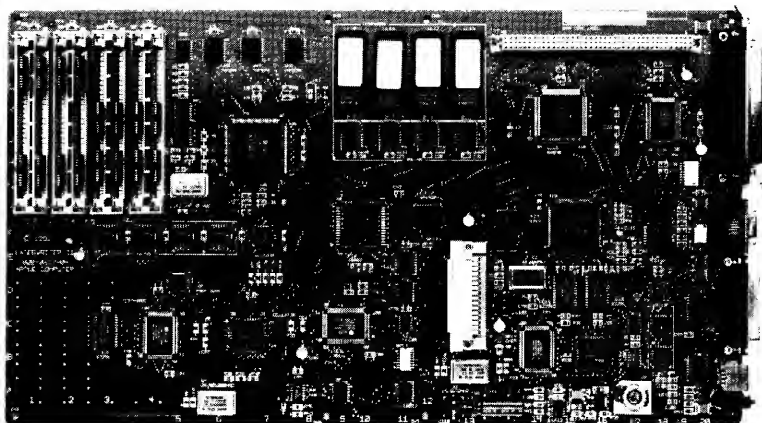


NOTE: Remove the controller card before returning the LaserWriter II engine to Apple.

LaserWriter IIg I/O Board

Apple P/N 661-0775 (SIMM-less)

(When you return P/N 661-0661 or P/N 661-0769, Apple ships you P/N 661-0775.)

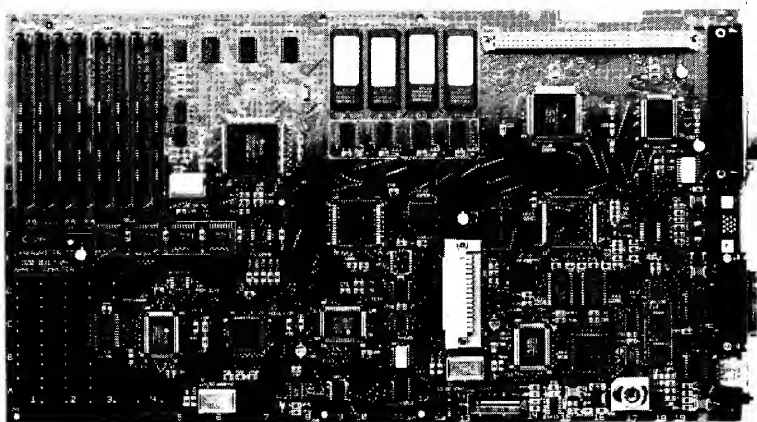


NOTE: Because replacement I/O boards do not come with a bracket assembly, you must retain the bracket assembly for use on the replacement I/O board. Do not return the bracket assembly to Apple.

LaserWriter IIx I/O Board

Apple P/N 661-0776 (SIMM-less)

(When you return P/N 661-0662 or P/N 661-0770, Apple ships you P/N 661-0776.)



NOTE: Because replacement I/O boards do not come with a bracket assembly, you must retain the bracket assembly for use on the replacement I/O board. Do not return the bracket assembly to Apple.

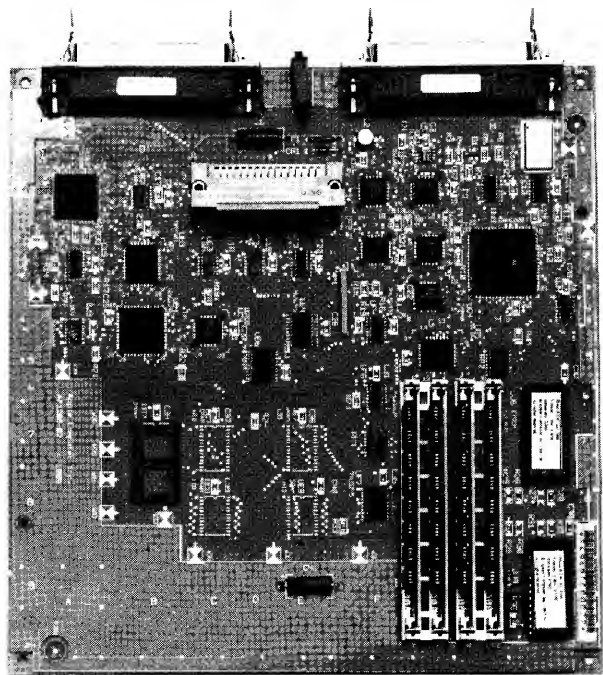
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Apple Personal LaserWriter SC I/O Board

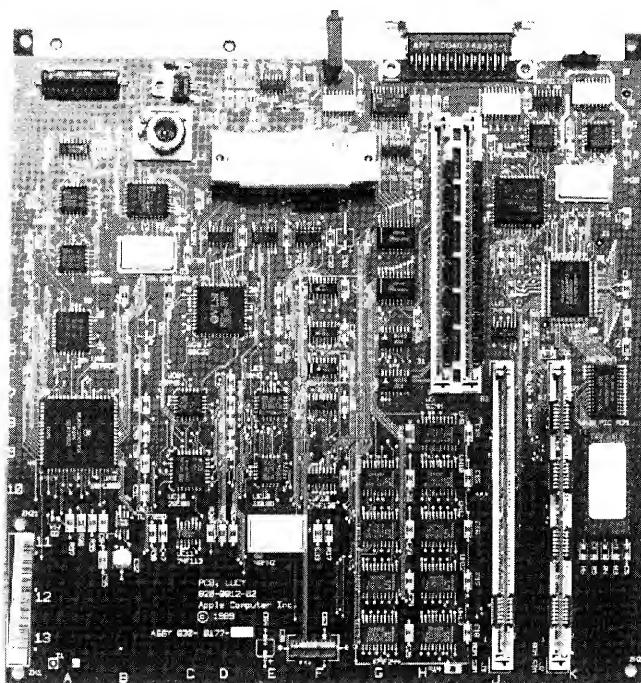
Apple P/N 661-0566



NOTE: Before you return the Apple Personal LaserWriter SC I/O board, remove the bracket, but do not remove the four 256K RAM SIMMs.

Apple Personal LaserWriter NT I/O Board

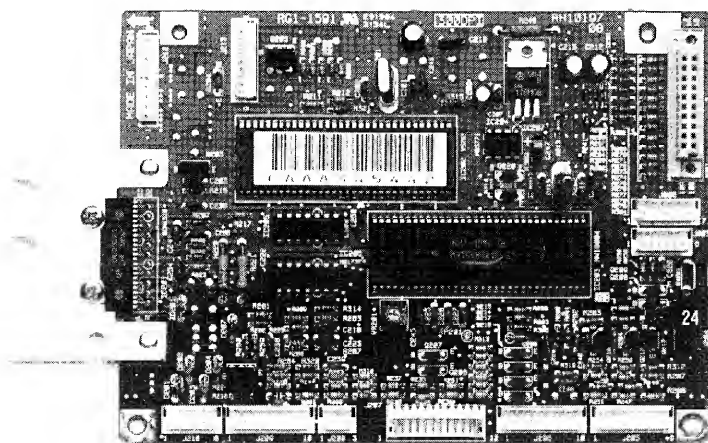
Apple P/N 661-0565



NOTE: Before you return the Apple Personal LaserWriter board, remove the bracket, but do not remove the RAM SIMMs or the set of ROM SIMMs.

Apple Personal LaserWriter NT, SC, and NTR DC Controller Board

Apple P/N 661-0567



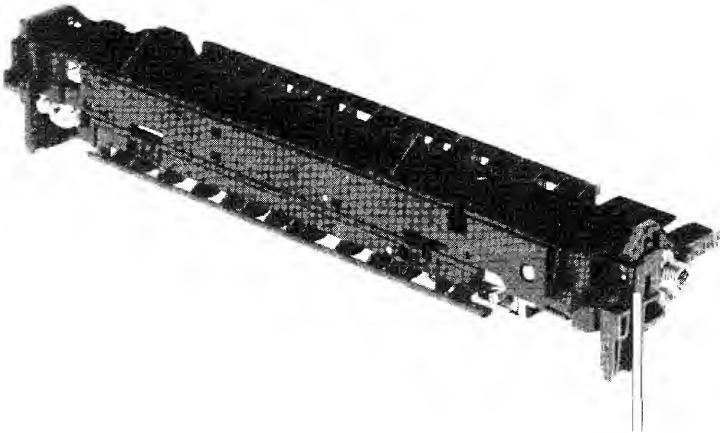
NOTE: Remove the plastic cable clip and the interconnect PCB before you return the DC controller board to Apple.

This controller board is not approved for use on the Apple Personal LaserWriter LS or LS/L.

This controller board has part number RGI-1591 printed on the board (near connector J213).

Apple Personal LaserWriter Fuser

Apple P/N 661-0568 (110/115 V)
Apple P/N 661-0575 (220/240 V)



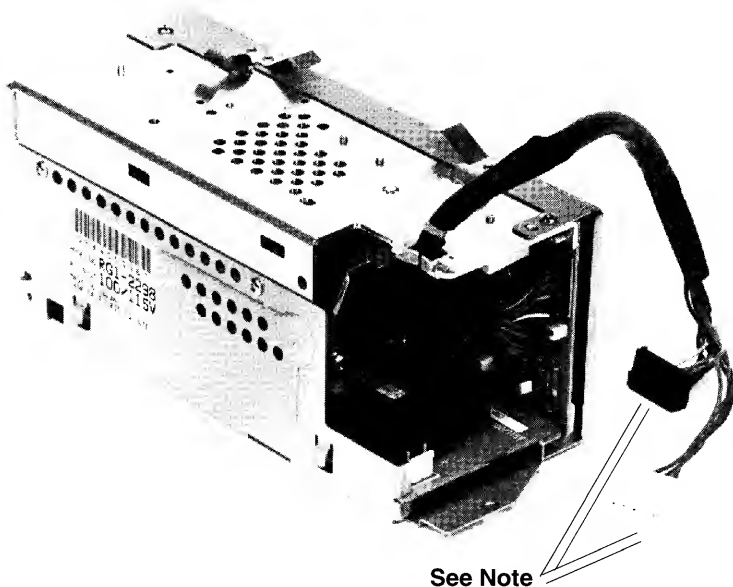
See Note

NOTE: The mounting hole must be in the position shown.

Apple Personal LaserWriter NT, SC, and NTR Power Supply Unit

Apple P/N 661-0569 (110/115 V)

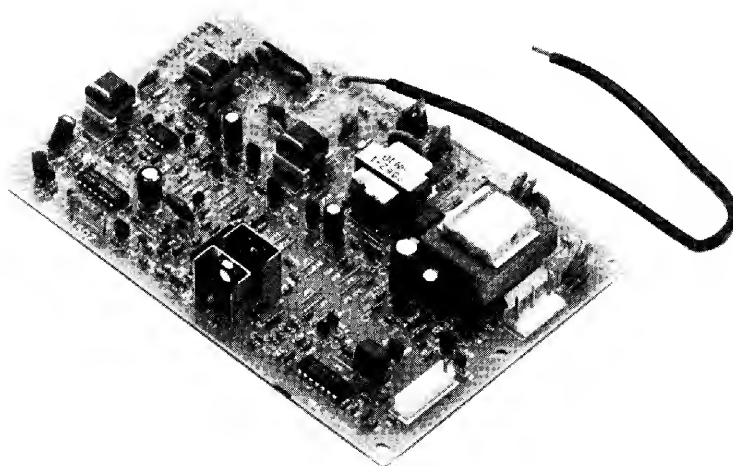
Apple P/N 661-0574 (220/240 V)



NOTE: The Apple Personal LaserWriter NT, SC, & NTR power supply unit is not compatible with the Personal LaserWriter LS and LS/L. The Personal LaserWriter NT, SC, & NTR power supply unit has two connectors; the LS and LS/L power supply units have only one.

Apple Personal LaserWriter High-Voltage Power Supply

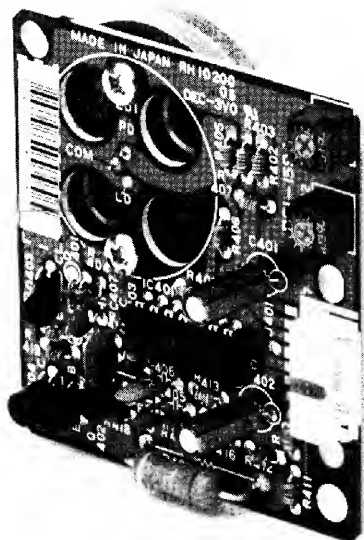
Apple P/N 661-0573



NOTE: The high-voltage power supply does not ship with the plastic tray or grounding plate.

Apple Personal LaserWriter
Laser Assembly

Apple P/N 661-0571



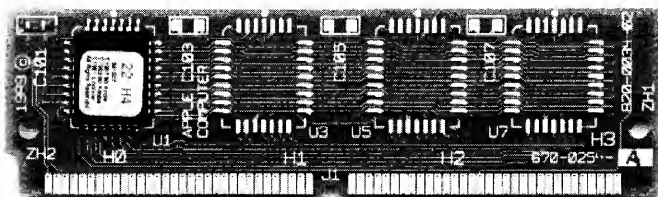
Apple Personal LaserWriter Scanner Assembly

Apple P/N 661-0572



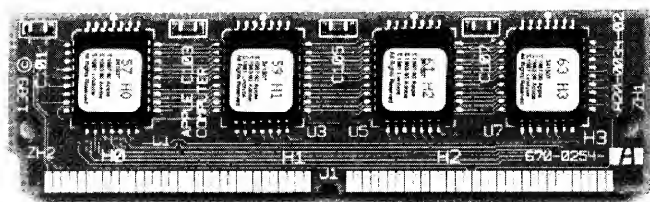
**Apple Personal LaserWriter
ROM SIMM, 256K**

Apple P/N 661-0602



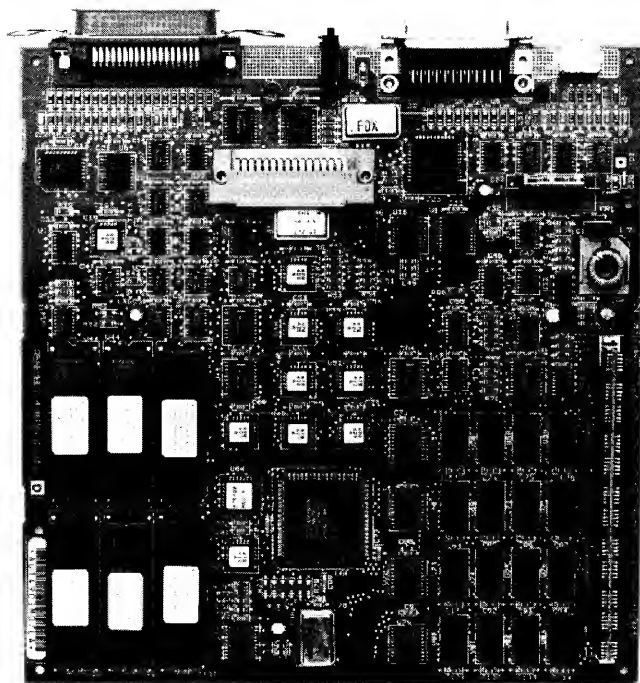
Apple Personal LaserWriter ROM SIMM, 1 MB

Apple P/N 661-0570



Personal LaserWriter NTR
I/O Board

Apple P/N 661-0725



NOTE: Before you return the Apple Personal LaserWriter NTR I/O board, remove the bracket, but do not remove the 1 MB RAM SIMMs.

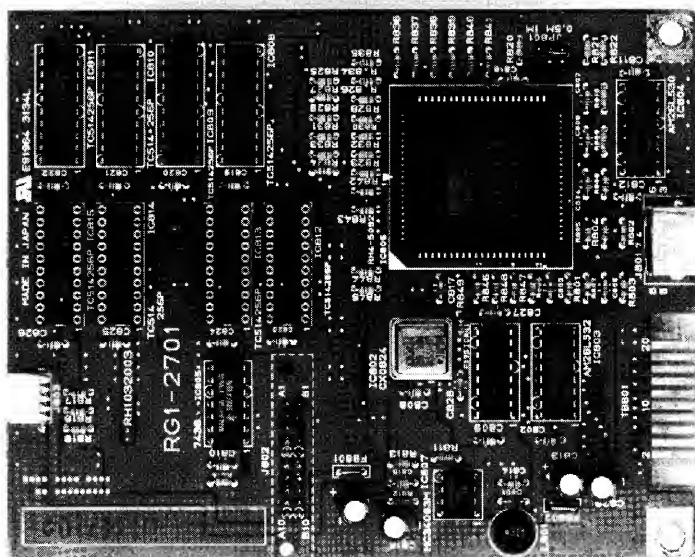
**Personal LaserWriter NTR
SIMM, 1 MB, 80 ns, 72-Pin**

Apple P/N 661-0734



Apple Personal LaserWriter LS Serial I/O Board

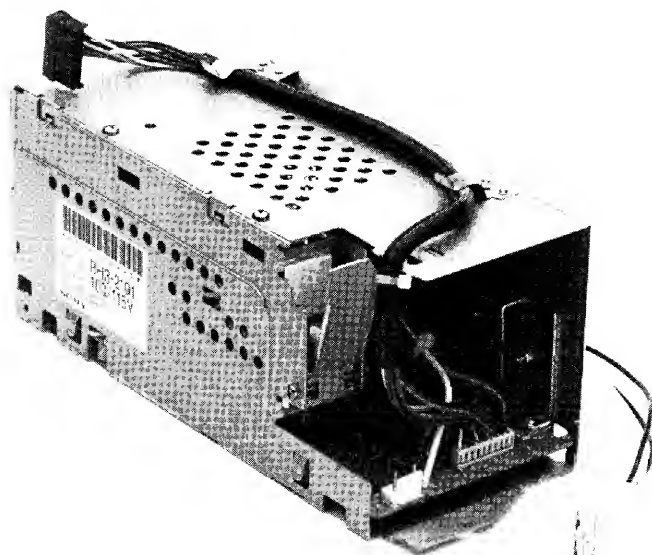
Apple P/N 661-0631



NOTE: Return the serial I/O board in its 512K configuration (that is, with sockets IC812 through IC815 empty).

Apple Personal LaserWriter LS Power Supply Unit

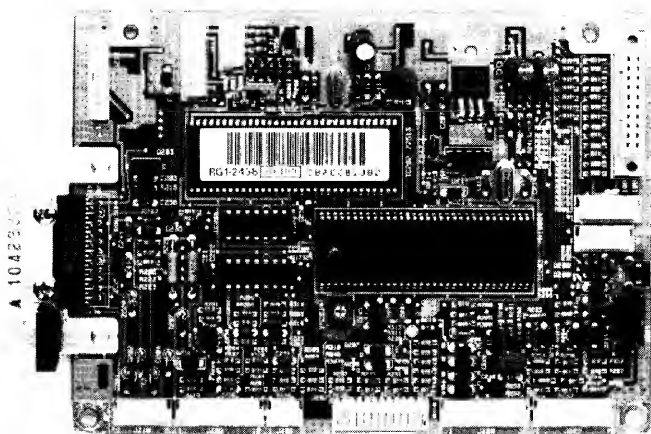
Apple P/N 661-0636 (110/115 V)
Apple P/N 661-0637 (220/240 V)



NOTE: The Apple Personal LaserWriter LS power supply unit is not compatible with the Personal LaserWriter LS/L, SC, NT, or NTR. The LaserWriter LS power supply unit has only one connector; the NT, SC, and NTR power supply unit has two. Also, the Personal LaserWriter LS power supply unit has a lower power rating.

Apple Personal LaserWriter LS DC Controller Board

Apple P/N 661-0650



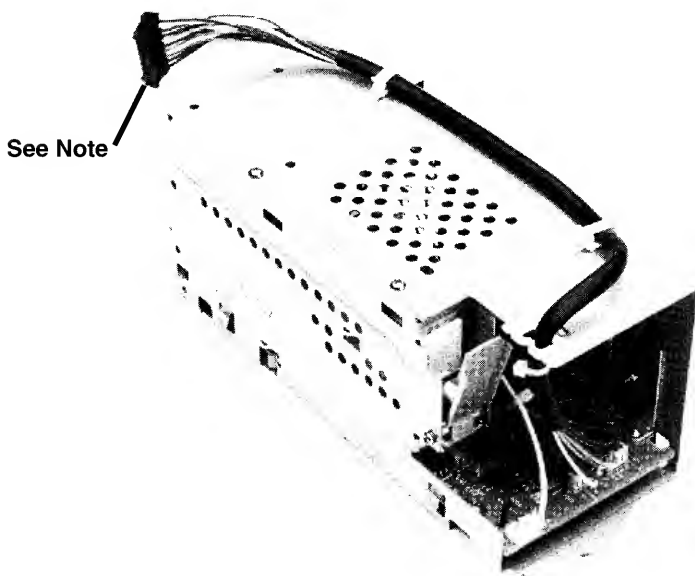
NOTE: The Apple Personal LaserWriter LS DC controller board is not approved for use on other Apple Personal LaserWriters. Do not interchange DC controller boards between the Personal LaserWriter LS and other Personal LaserWriter printers.

The LS DC controller board has the part number RGI-2458 printed on the board.

Apple Personal LaserWriter LS/L Power Supply Unit

Apple P/N 661-0668 (110/115 V)

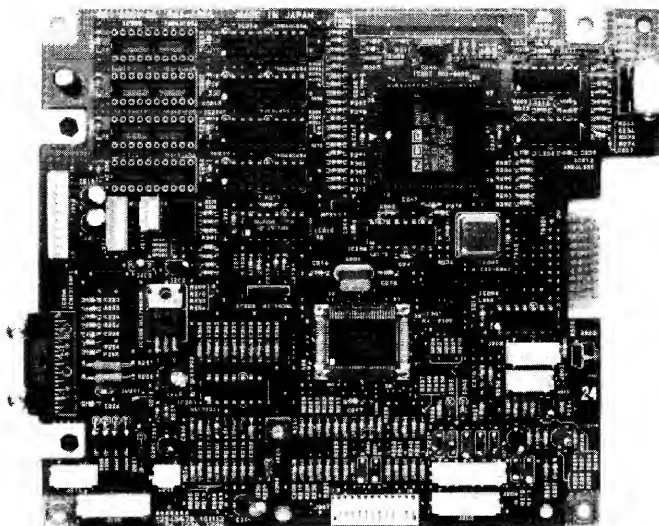
Apple P/N 661-0667 (220/240 V)



NOTE: The Apple Personal LaserWriter LS/L power supply unit is not compatible with the Personal LaserWriter LS, SC, NT, or NTR. The Personal LaserWriter LS/L power supply unit has only one connector; the NT, SC, and NTR power supply unit has two. Also, the power rating is lower on the Personal LaserWriter LS/L power supply unit. You can distinguish the LS/L power supply from the original LS power supply by the presence of a green 5-volt line on the Personal LaserWriter LS/L power supply.

Apple Personal LaserWriter LS/L Serial Controller

Apple P/N 661-0669



NOTE: Return the serial controller board in its 512K configuration (that is, with sockets IC217 through IC220 empty).

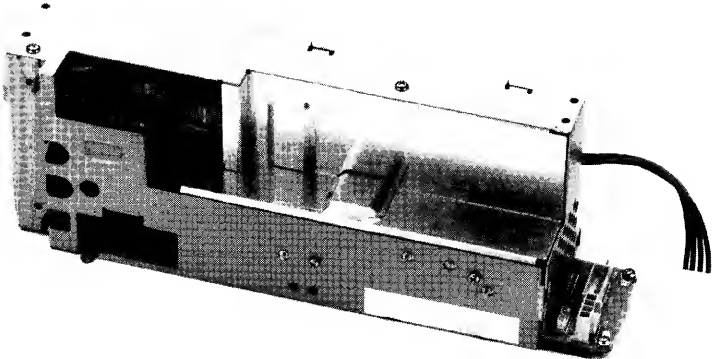
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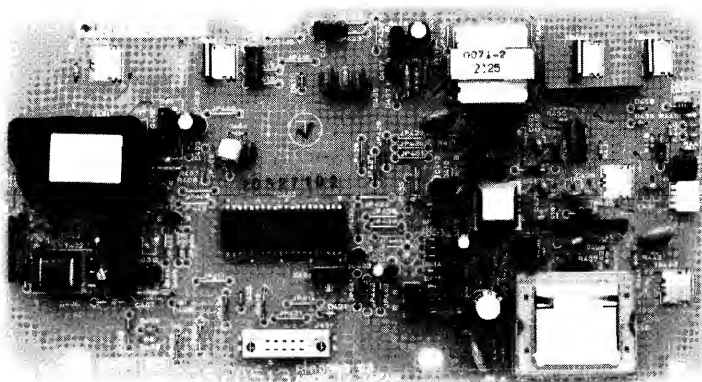
**LaserWriter Pro
Power Supply**

**Apple P/N 661-0802, 110/115 V
Apple P/N 661-0803, 220/240 V**



LaserWriter Pro High-Voltage Power Supply

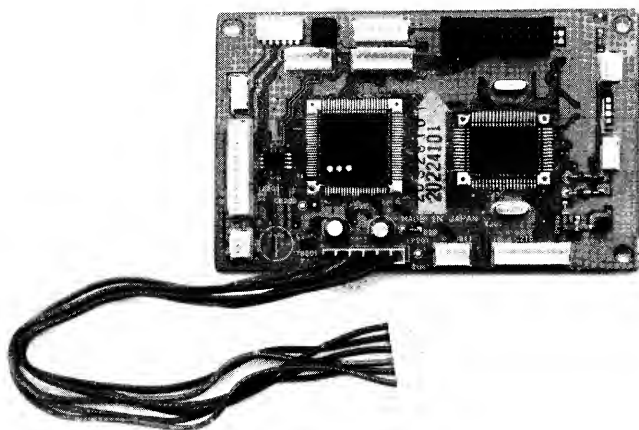
Apple P/N 661-0804



NOTE: The high-voltage power supply does not ship with its plastic tray.

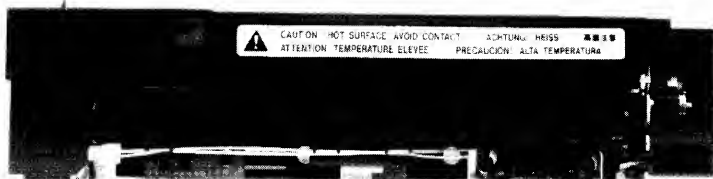
**LaserWriter Pro
DC Controller Board**

Apple P/N 661-0807



LaserWriter Pro Fuser Assembly

Apple P/N 661-0805, 110/115 V
Apple P/N 661-0806, 220/240 V



NOTE: Please return the fuser assembly with the pressure roller levers in the up position.

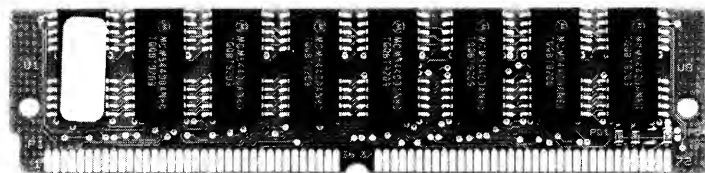
LaserWriter Pro
Laser/Scanner Assembly

Apple P/N 661-0801



LaserWriter Pro
SIMM, 4 MB, 80 ns, 72-Pin

Apple P/N 661-0808



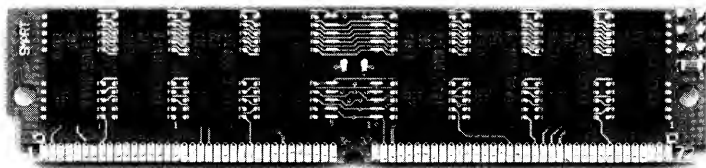
NOTE: This board has ICs on one side.

The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns, where as -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back side of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 4-MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

LaserWriter Pro
SIMM, 8 MB, 80 ns, 72-Pin

Apple P/N 661-0809



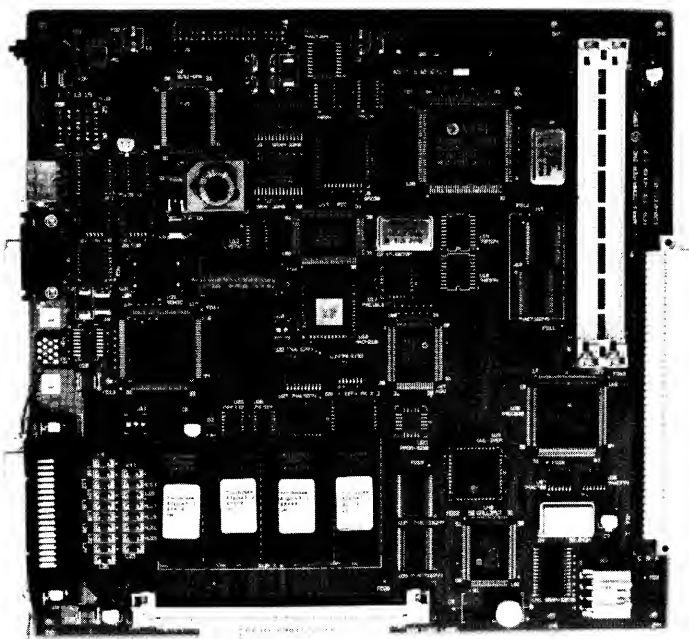
NOTE: This board has ICs on both sides.

The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns where as -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back side of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 8-MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

LaserWriter Pro 600 I/O Board

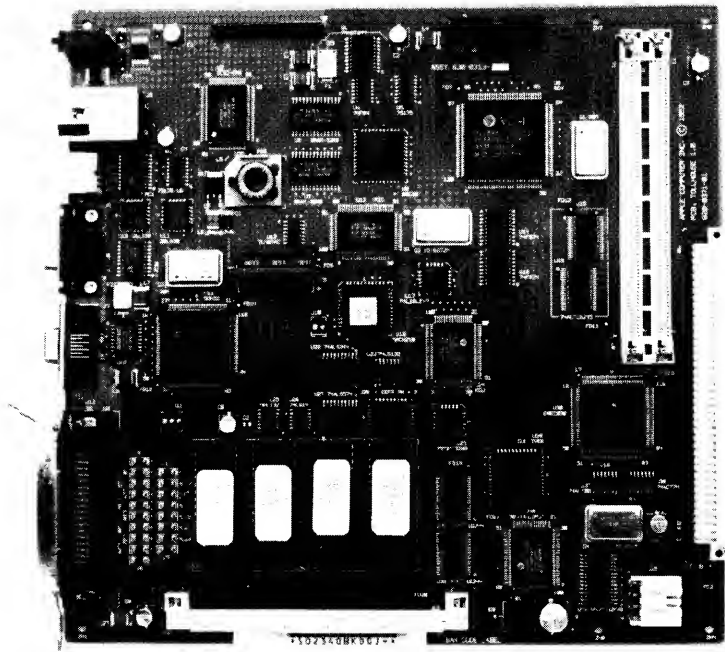
Apple P/N 661-0799



NOTE: The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.

**LaserWriter Pro 630
I/O Board**

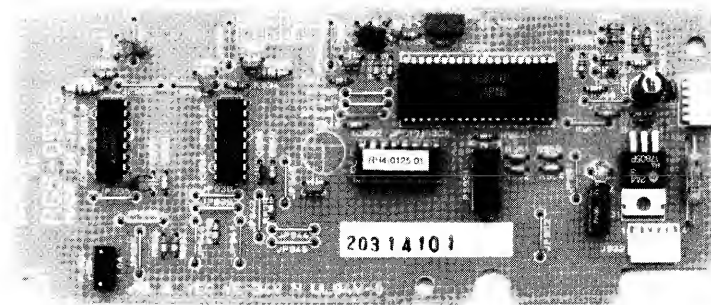
Apple P/N 661-0800



NOTE: The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.

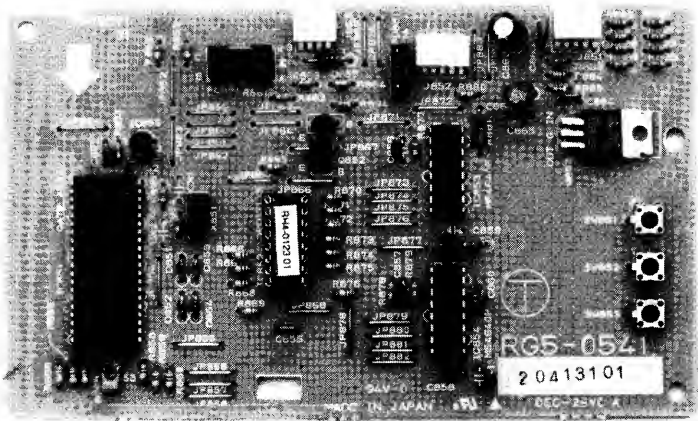
LaserWriter Pro Envelope Feeder Controller Board

Apple P/N 661-0797



LaserWriter Pro 500 Sheet Feeder Controller Board

Apple P/N 661-0798



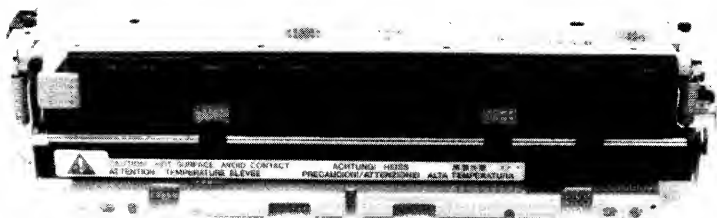
**Personal LaserWriter 300
Fuser Assembly (110 V)**

Apple P/N 661-0025



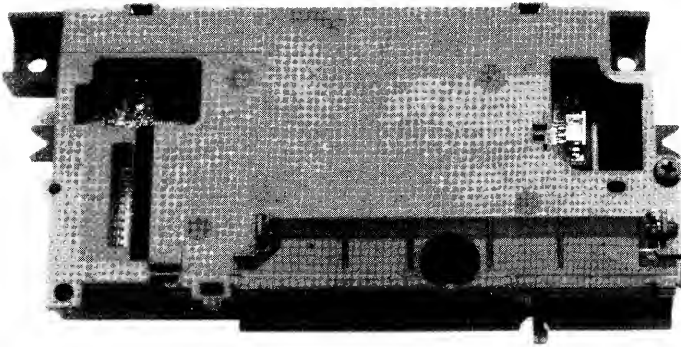
**Personal LaserWriter 300
Fuser Assembly (220 V)**

Apple P/N 661-0026



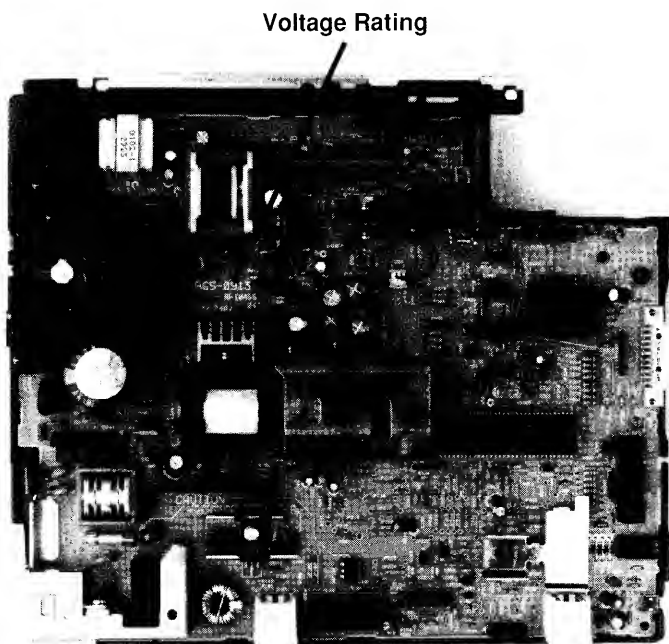
Personal LaserWriter 300
Laser/Scanner Assembly

Apple P/N 661-0027



Personal LaserWriter 300
Controller Assembly (240 V)

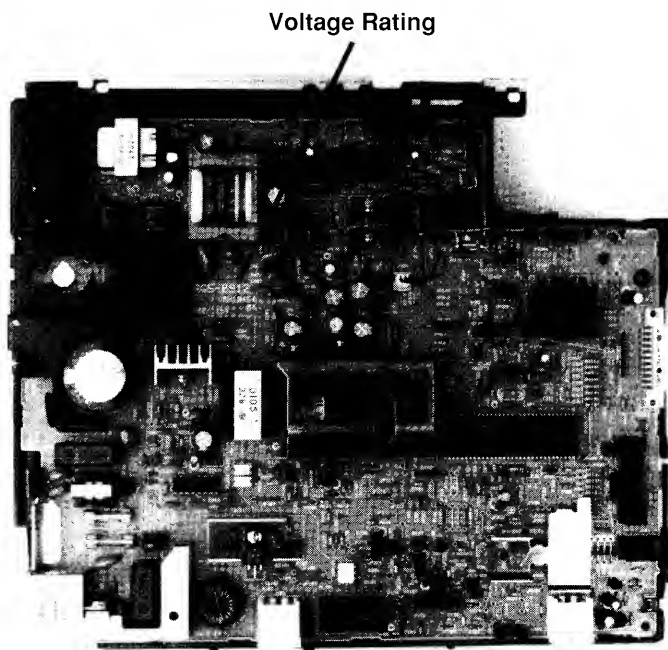
Apple P/N 661-0028



NOTE: The Personal LaserWriter 300 control assembly (240 V) can be distinguished by a voltage rating located on the board.

Personal LaserWriter 300
Controller Assembly (120 V)

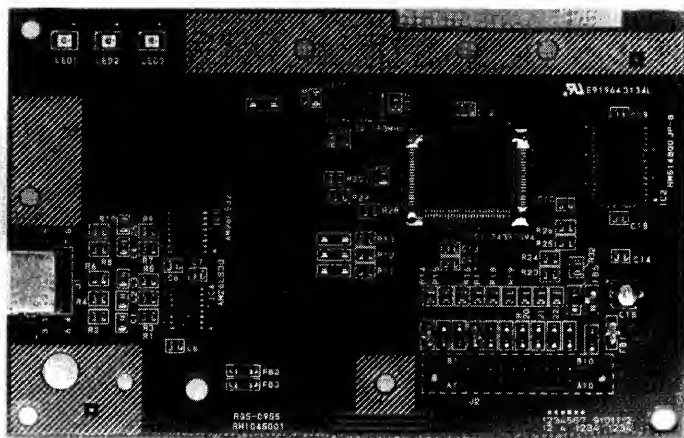
Apple P/N 661-0029



NOTE: The Personal LaserWriter 300 control assembly (120 V) can be distinguished by a voltage rating located on the board.

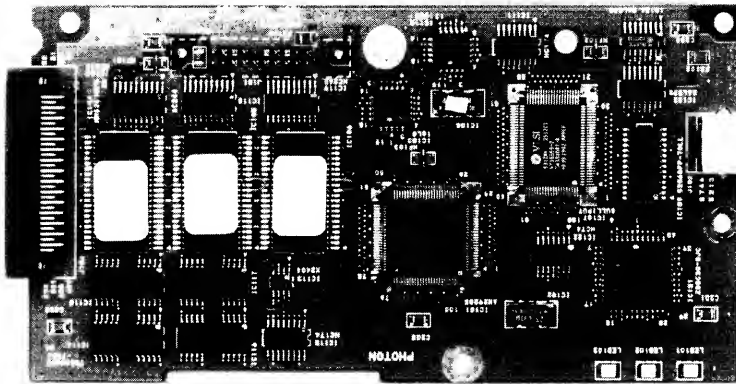
Personal LaserWriter 300 I/O Board

Apple P/N 661-0030



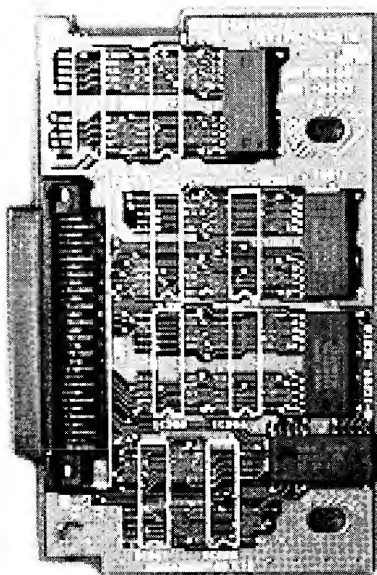
Apple Personal LaserWriter 320 I/O Controller Board

Apple P/N 661-0687



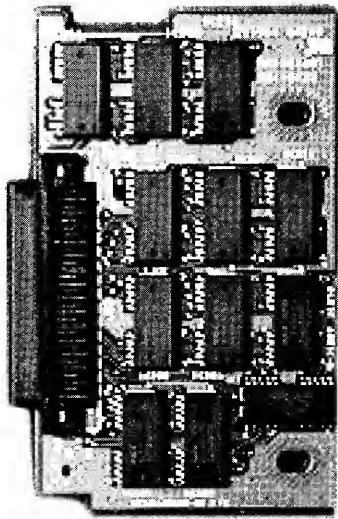
**Apple Personal LaserWriter 320
RAM Expansion Card, 2 MB**

Apple P/N 661-0688



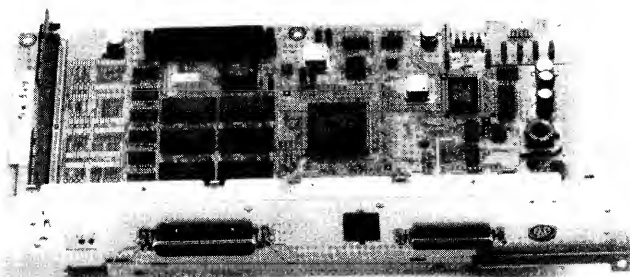
**Apple Personal LaserWriter 320
RAM Expansion Card, 6 MB**

Apple P/N 661-0689



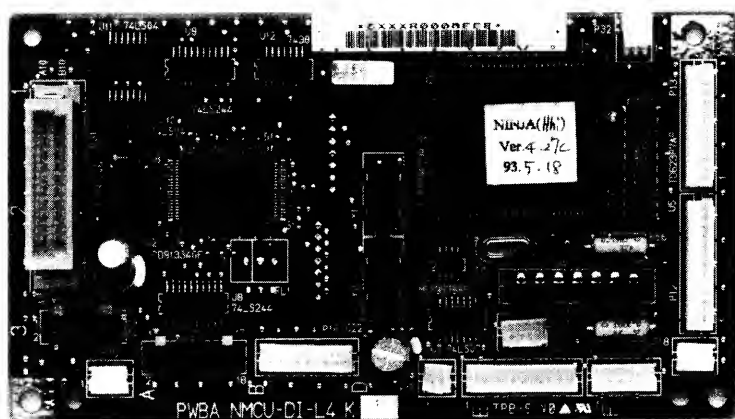
**LaserWriter Select 360
I/O Controller Board**

Apple P/N 661-0820



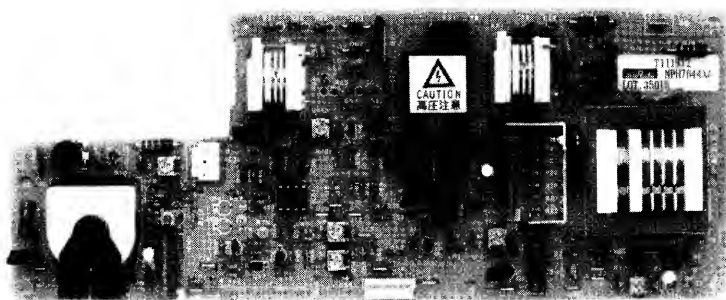
LaserWriter Select 360 DC Controller Board

Apple P/N 661-0821



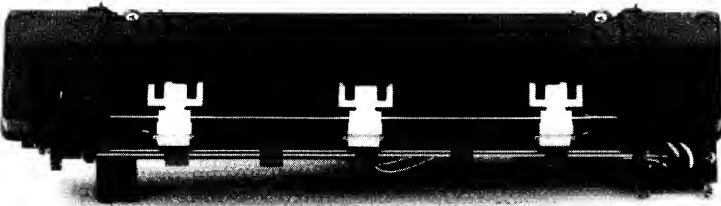
LaserWriter Select 360
High-Voltage Power Supply

Apple P/N 661-0822



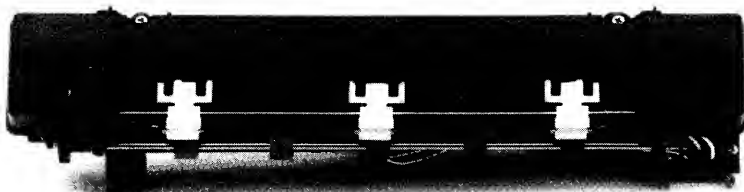
LaserWriter Select 360
Fuser Assembly, 115 V

Apple P/N 661-0825



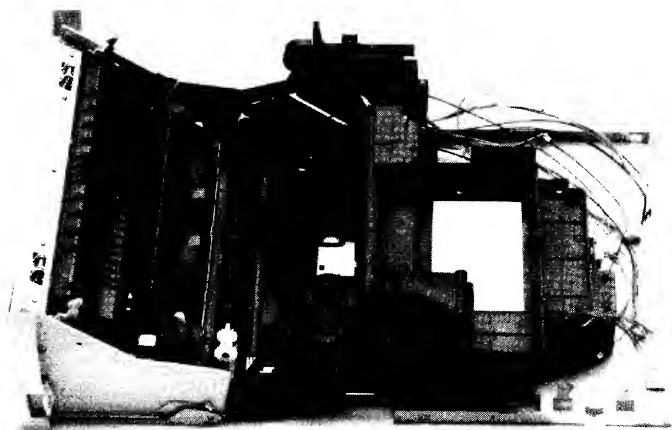
LaserWriter Select 360
Fuser Assembly, 220 V

Apple P/N 661-0826



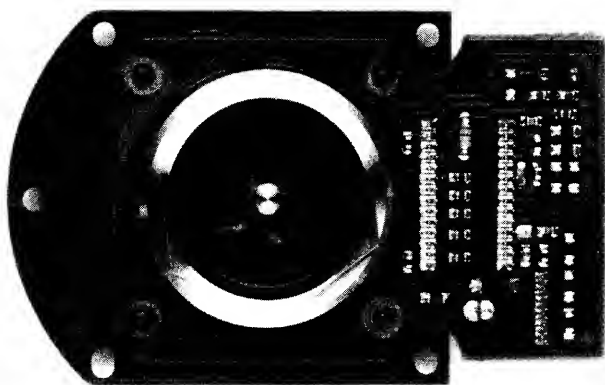
LaserWriter Select 360
Laser Optic Assembly

Apple P/N 661-0827



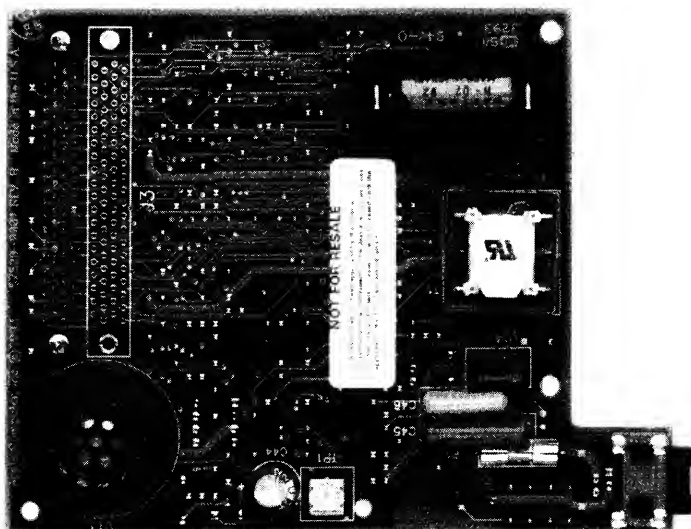
**LaserWriter Select 360
Scanner Motor**

Apple P/N 661-0828



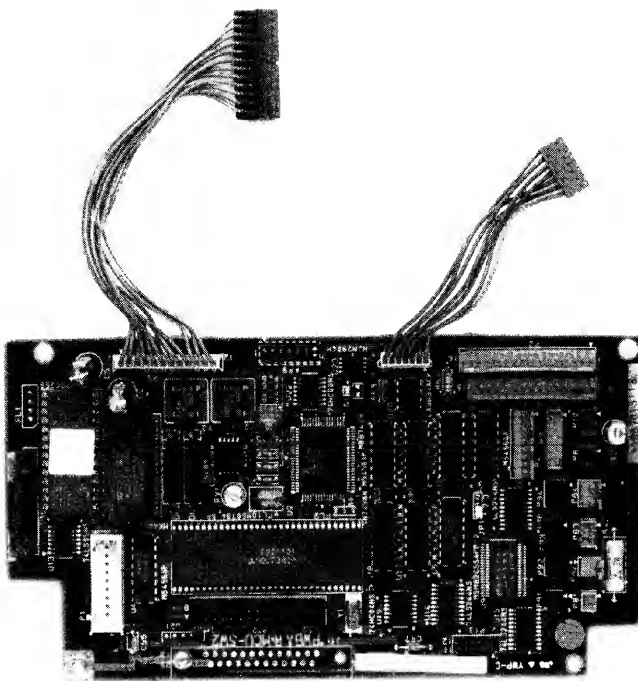
LaserWriter Select 360 Fax Card

Apple P/N 661-0868



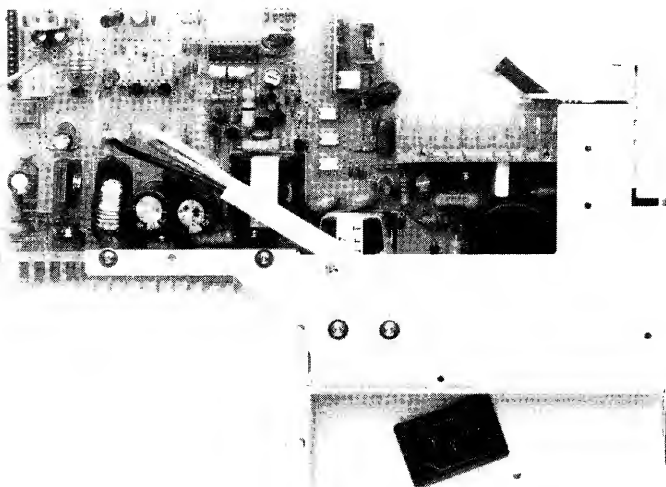
**LaserWriter Pro 810
DC Controller Board**

Apple P/N 661-0833



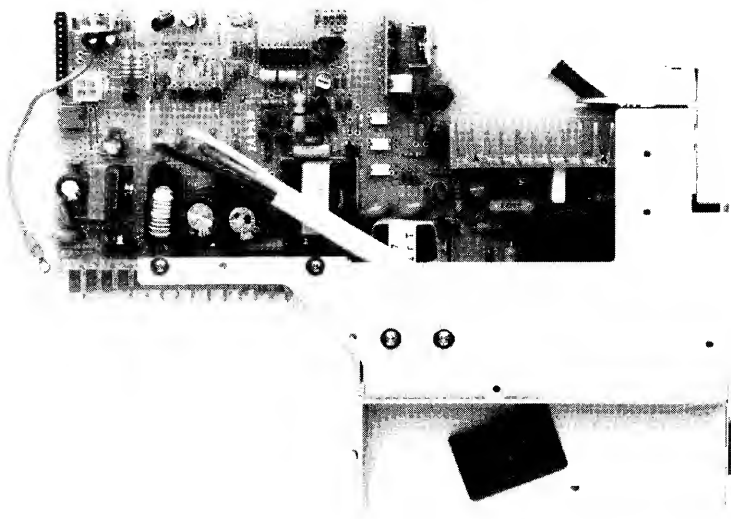
LaserWriter Pro 810
Power Supply, 115 V

Apple P/N 661-0836



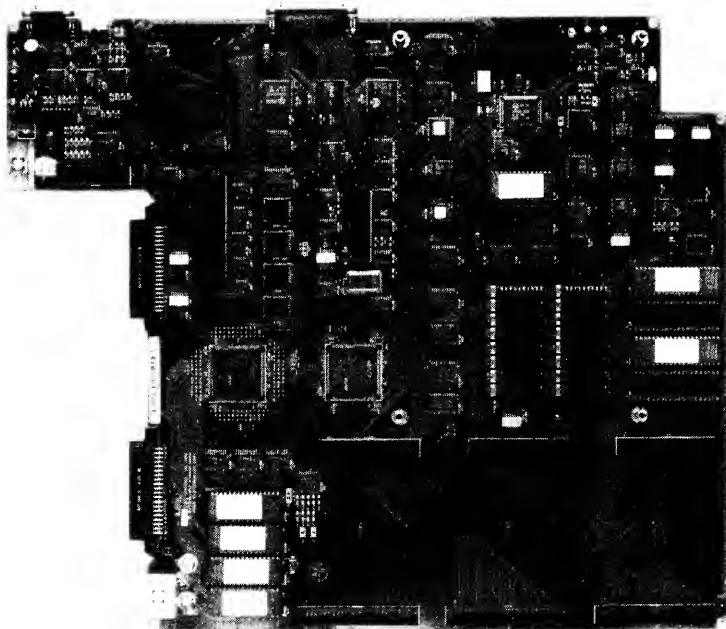
**LaserWriter Pro 810
Power Supply, 220 V**

Apple P/N 661-0837



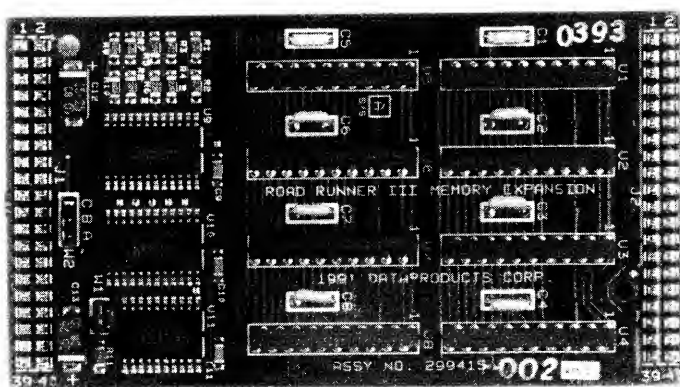
**LaserWriter Pro 810
I/O Controller**

Apple P/N 661-0842



LaserWriter Pro 810
4 MB Memory Card

Apple P/N 661-0846



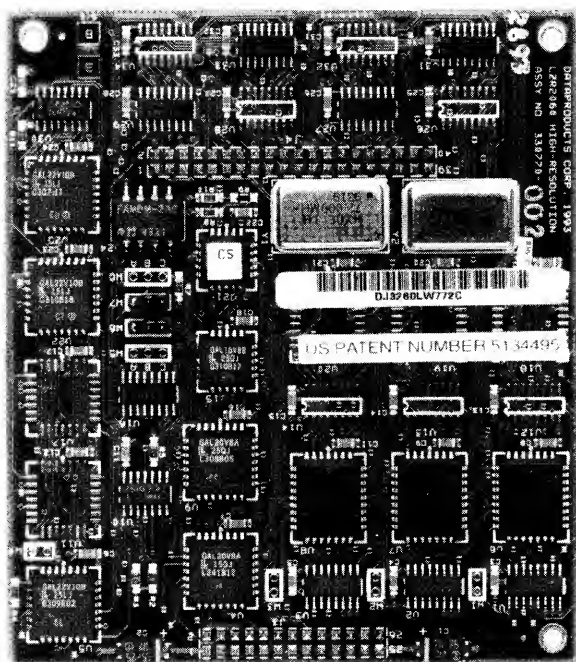
LaserWriter Pro 810
8 MB Memory Card

Apple P/N 661-0847

**Photograph not available
at the time of printing**

**LaserWriter Pro 810
High Resolution Card**

Apple P/N 661-0849



Apple P/N 661-0850



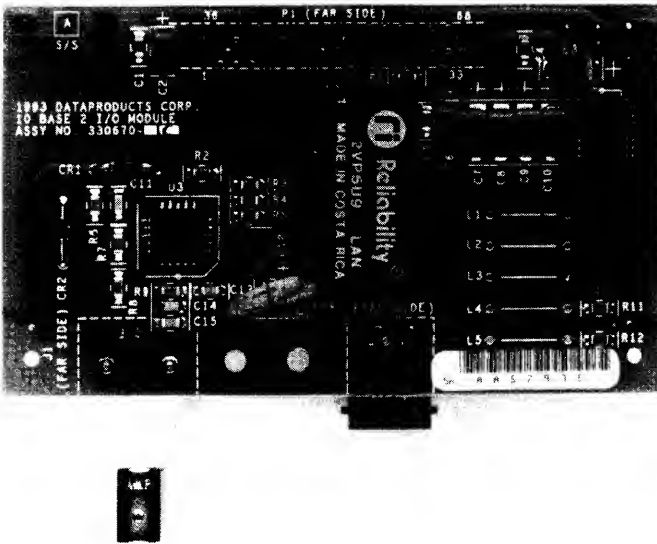
**LaserWriter Pro 810
Fax Card**

Apple P/N 661-0851



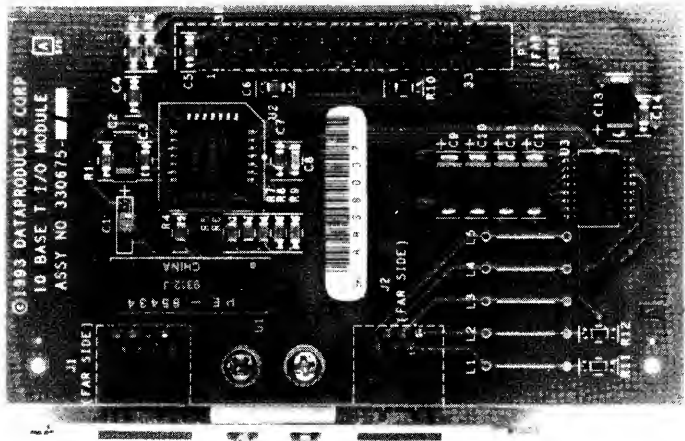
LaserWriter 810 Ethernet Card

Apple P/N 661-0852



LaserWriter Pro 810
Ethernet Card, 10 Base T

Apple P/N 661-0853



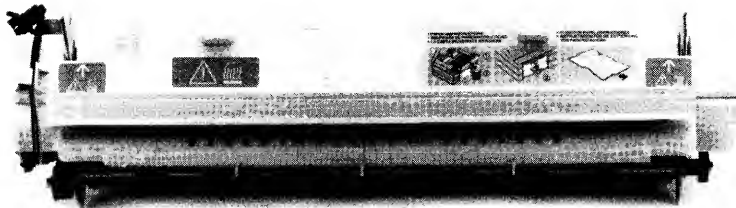
LaserWriter 810
Ethernet Card, 10 Base-2

Apple P/N 661-0854

**Photograph not available
at the time of printing**

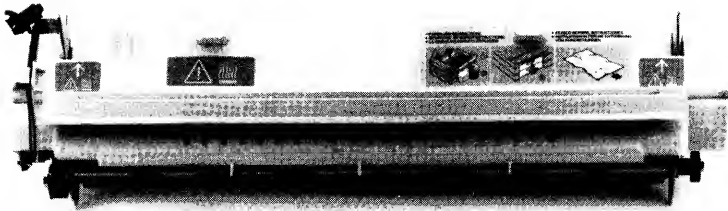
**LaserWriter Pro 810
Fuser, 110 V**

Apple P/N 661-0857



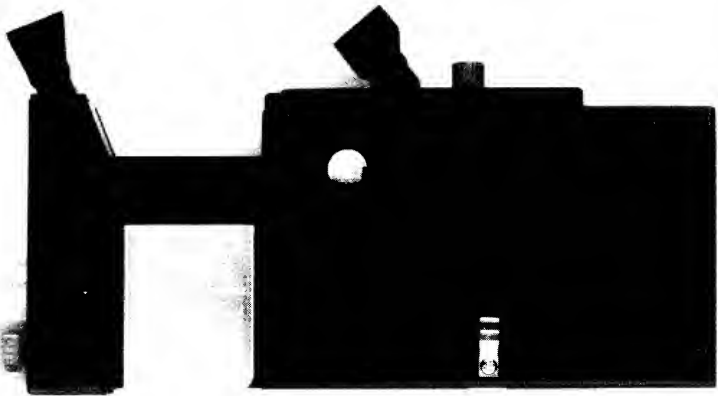
LaserWriter Pro 810
Fuser, 220 V

Apple P/N 661-0858



**LaserWriter Pro 810
High-Voltage Power Supply**

Apple P/N 661-0860



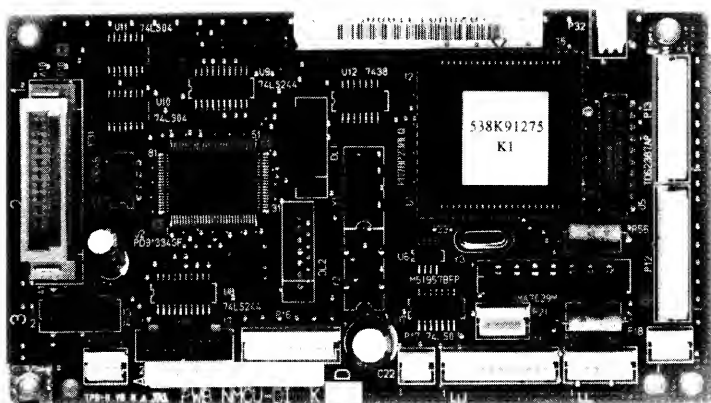
LaserWriter Pro 810
Laser/Scanner Unit

Apple P/N 661-0865



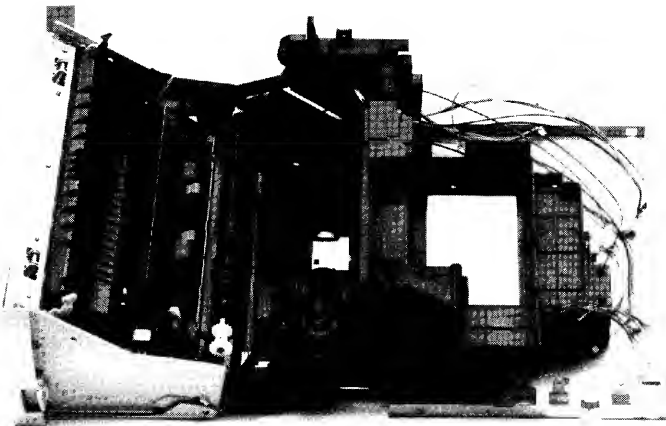
**LaserWriter Select
DC Controller Board**

Apple P/N 661-2002



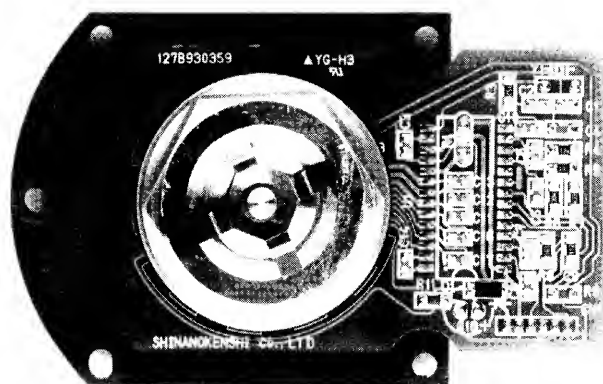
LaserWriter Select
Laser Optic Assembly

Apple P/N 661-2003



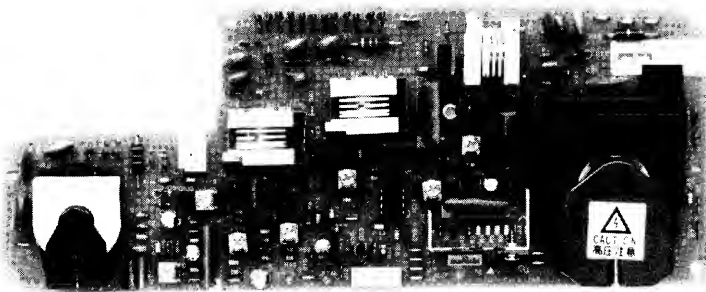
**LaserWriter Select
Scanner Motor**

Apple P/N 661-2004



LaserWriter Select High-Voltage Power Supply

Apple P/N 661-2005

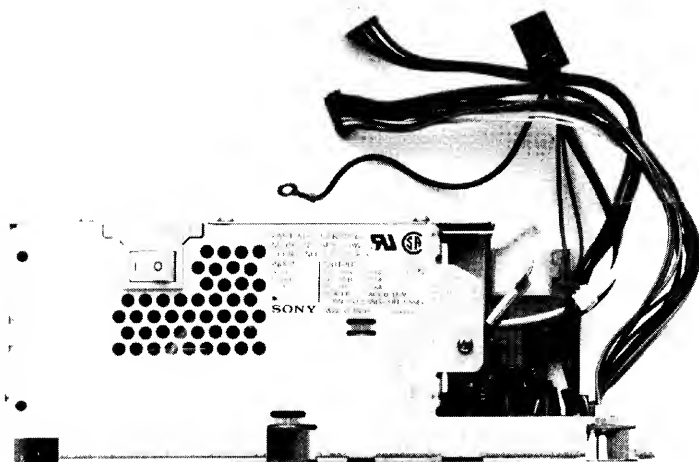


NOTE: The high-voltage power supply does not ship with its plastic tray.

LaserWriter Select Power Supply

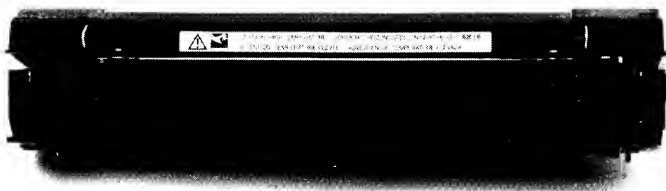
Apple P/N 661-2006, 110/115 V

Apple P/N 661-2007, 220/240 V



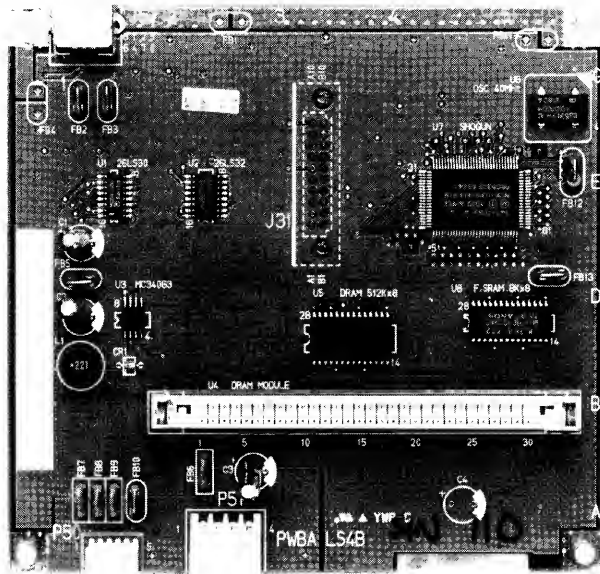
**LaserWriter Select
Fuser Assembly**

**Apple P/N 661-2008, 110/115 V
Apple P/N 661-2009, 220/240 V**



LaserWriter Select 300 I/O Board

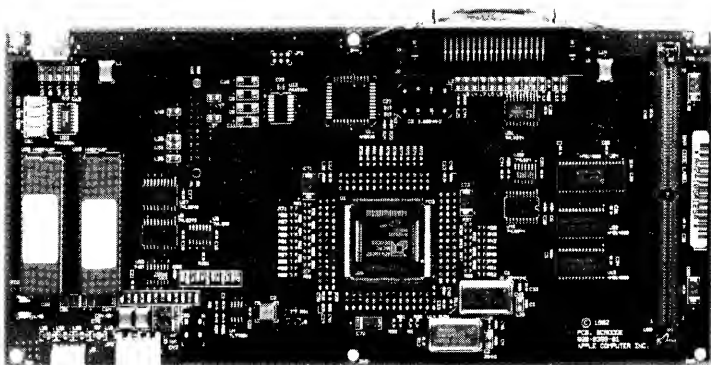
Apple P/N 661-2000



NOTE: The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.

LaserWriter Select 310 I/O Board

Apple P/N 661-2001

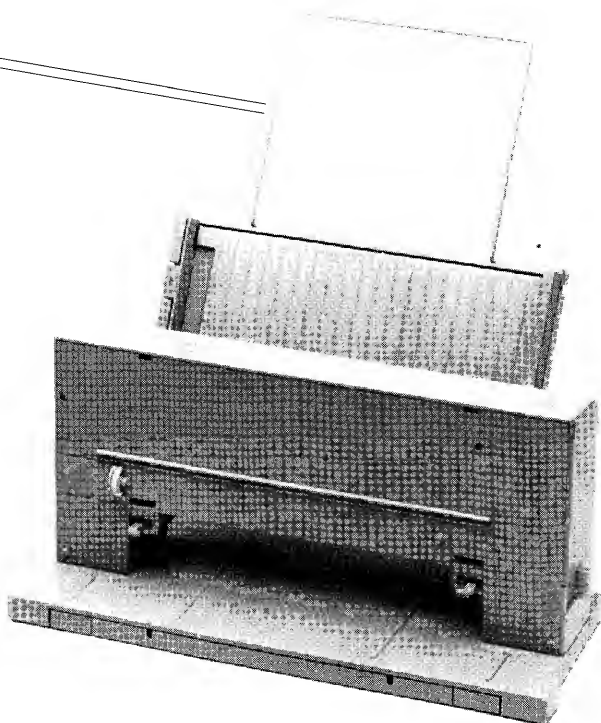


NOTE: The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.

StyleWriter Cut Sheet Feeder

Apple P/N 661-0628

See Note



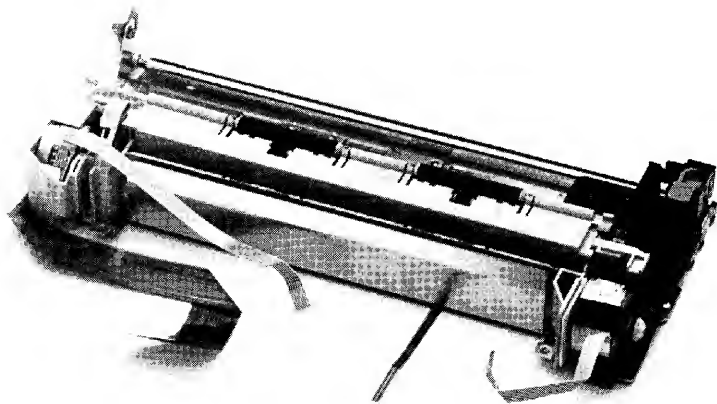
NOTE: Remove the paper rod support from the cut sheet feeder, but be sure to include the paper rod support when you return the cut sheet feeder to Apple.

SPECIAL PACKAGING IS REQUIRED; failure to comply with these requirements may result in a packaging noncompliance charge. Please refer to the StyleWriter manual in *Service Source* manual for information on special packaging and procedures.

StyleWriter Printer Frame Assembly

Apple P/N 661-0630 (Rev. A)

Apple P/N 661-0718 (Rev. B)



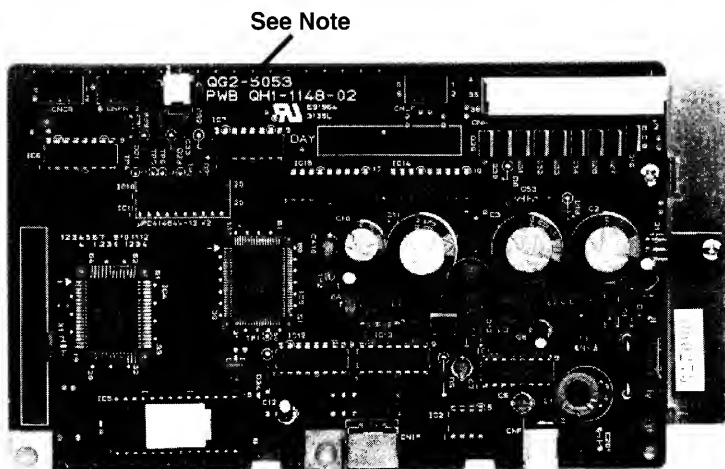
NOTE: Remove the ink cartridge before you return the printer frame to Apple.

The two printer frame assemblies, although they appear identical, are not interchangeable. Please reference the StyleWriter manual in *Service Source* for the information on identifying which printer frame assembly your StyleWriter requires.

SPECIAL PACKAGING IS REQUIRED; failure to comply with these requirements may result in a packaging noncompliance charge. Please refer to the StyleWriter manual in *Service Source* for information on special packaging and procedures.

StyleWriter Main Logic Board

Apple P/N 661-0629 (Rev. A)
Apple P/N 661-0716 (Rev. B)

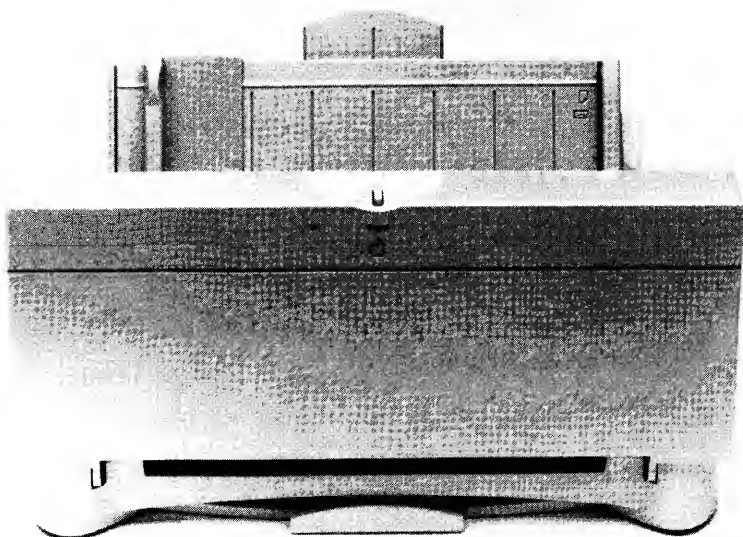


NOTE: The two main logic boards, although they appear identical, are not interchangeable. Use the silkscreen part number located on the front of the board. For Apple P/N 661-0629 (Rev. A), the part number is QG2-5053. For Apple P/N 661-0716 (Rev. B), the part number is QG2-2043.

For additional information refer to the StyleWriter manual in *Service Source*.

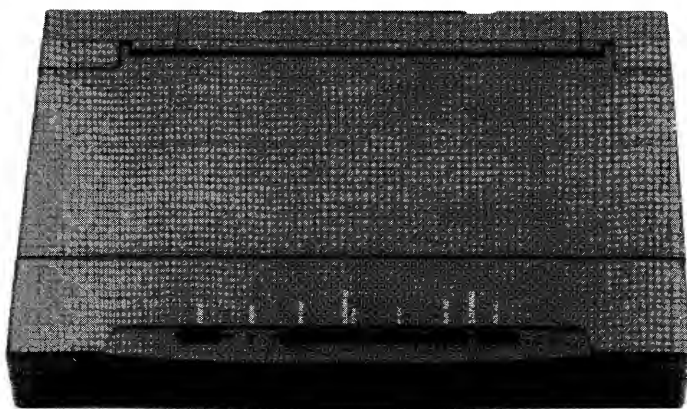
StyleWriter II
Whole Unit, Ink Jet

Apple P/N 661-0785, 120 V
Apple P/N 661-1010, 220 V



Apple Portable StyleWriter Whole Unit

Apple P/N 661-0830



NOTE: Before you return the Apple Portable StyleWriter, remove the NiCad battery (Apple P/N 661-0866).

**Apple Portable StyleWriter
Automatic Sheet Feeder**

Apple P/N 661-0831



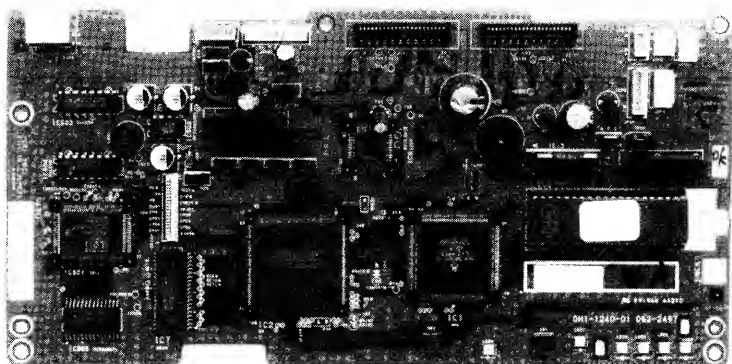
Apple Portable StyleWriter
Battery, NiCad

Apple P/N 661-0866



Apple Color StyleWriter Pro Controller Board

Apple P/N 661-0876



**Apple Color StyleWriter Pro
Power Supply**

Apple P/N 661-0877, 110 V

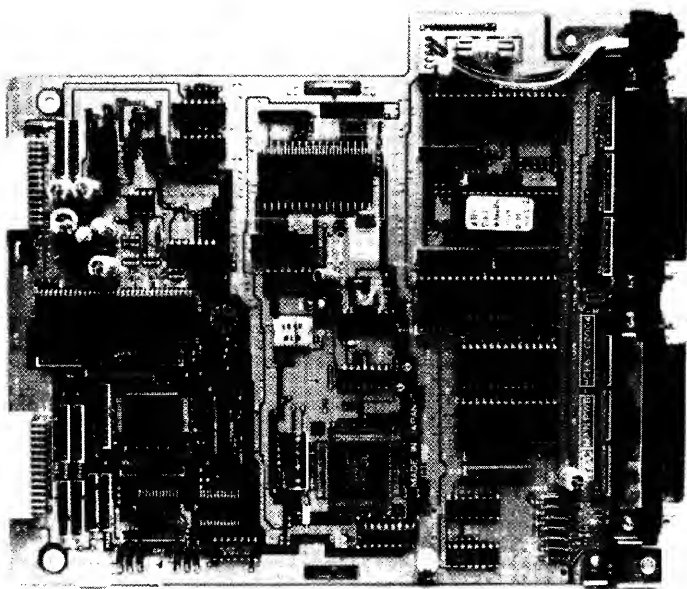
Apple P/N 661-0878, 220/240 V



Apple Scanner Main Logic Board, 4-Bit

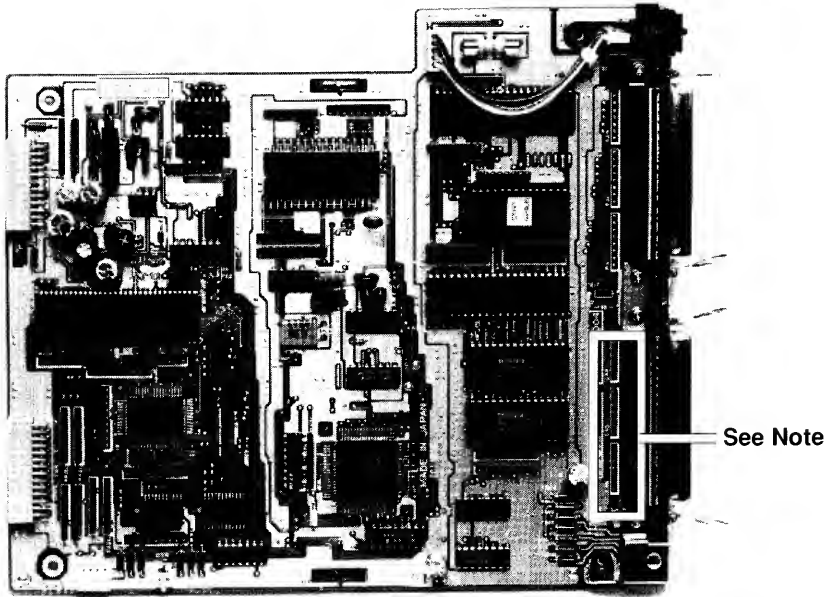
Apple P/N 661-0430

(When you return P/N 661-0430, Apple ships you P/N 661-0534.)



Apple Scanner
Main Logic Board, 4-Bit

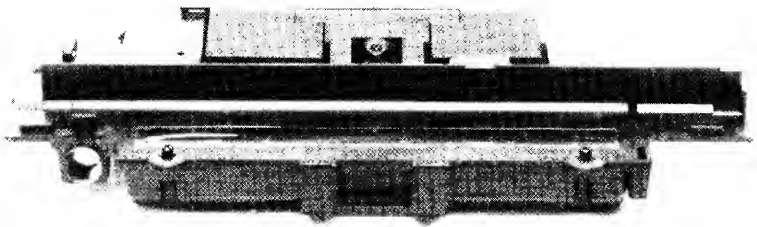
Apple P/N 661-0534



NOTE: The absence of capacitors (CA 4,5,6) in these positions indicates that this is a revision B main logic board.

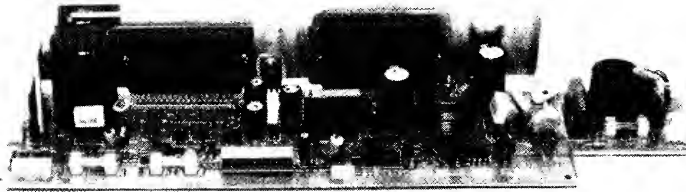
Apple Scanner
Optical Assembly, 4-Bit

Apple P/N 661-0449



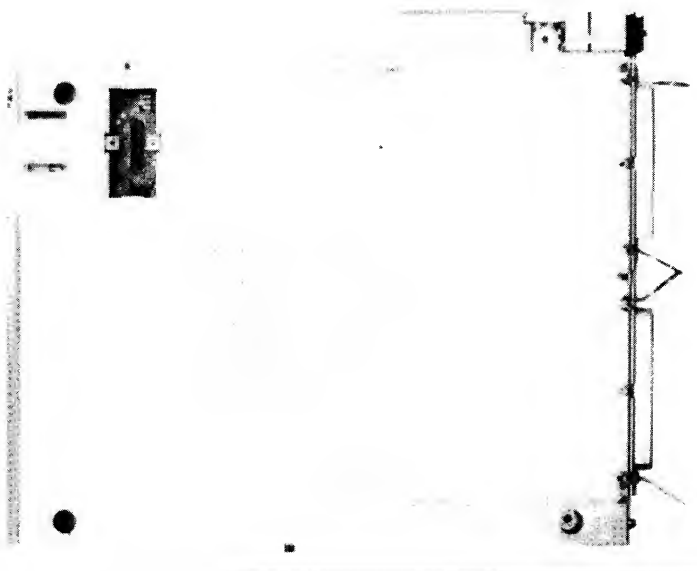
Apple Scanner
Power Supply, PCB Assembly

Apple P/N 661-0431



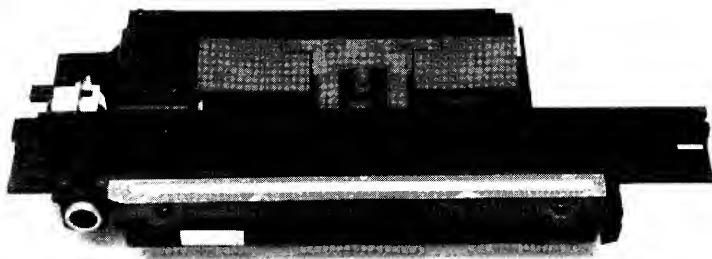
**Apple OneScanner
Main Logic Board, 8-Bit**

Apple P/N 661-0635



Apple OneScanner
Optical Assembly, 8-Bit

Apple P/N 661-0634



NOTE: Remove the inverter assembly and the lamp before you return the optical assembly to Apple.

Apple Color OneScanner
Power Supply, PCB Assembly, 24-Bit

Apple P/N 661-0738



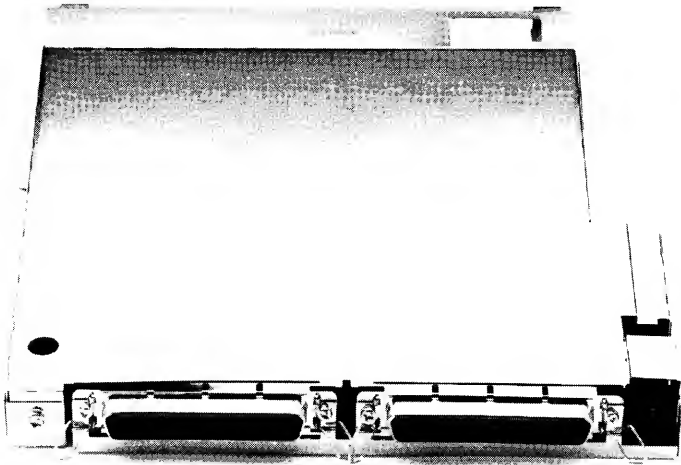
Apple Color OneScanner
Power Supply, PCB Assembly, 240 V
24-Bit (International Only)

Apple P/N 661-0810



**Apple Color OneScanner
Main Logic Board, 24-Bit**

Apple P/N 661-0740



Apple Color OneScanner Optical Assembly, 24-Bit

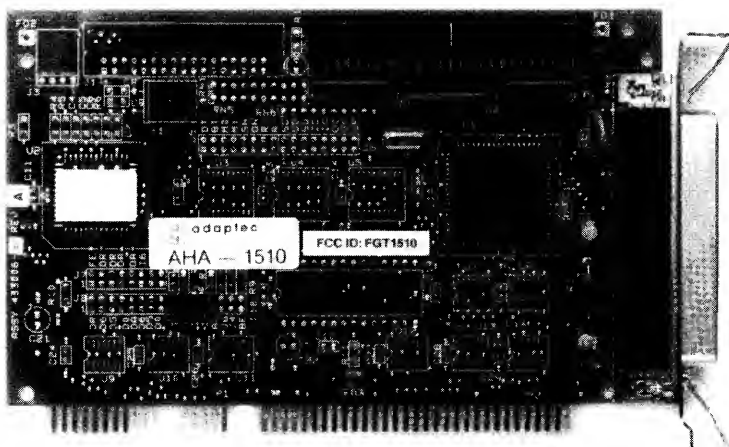
Apple P/N 661-0739



NOTE: Return the Apple Color OneScanner optical assembly with the lamp in place. The replacement comes with a lamp installed.

**OneScanner for Windows
SCSI Card**

Apple P/N 661-0737



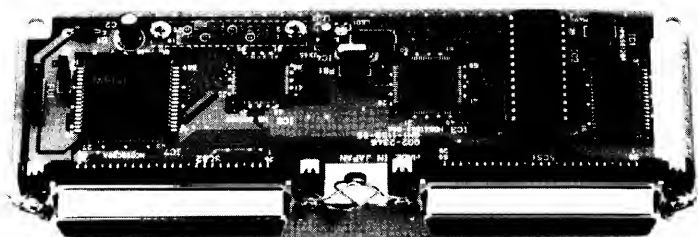
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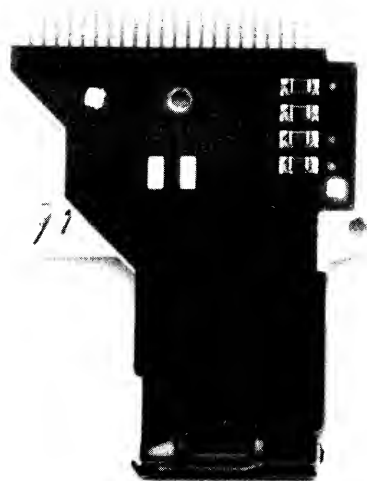
**Apple Color Printer
SCSI Card Assembly**

Apple P/N 661-1674



**Apple Color Printer
Bubble-Jet Head Unit**

Apple P/N 661-1685



Input Devices

Apple Desktop Bus Mouse

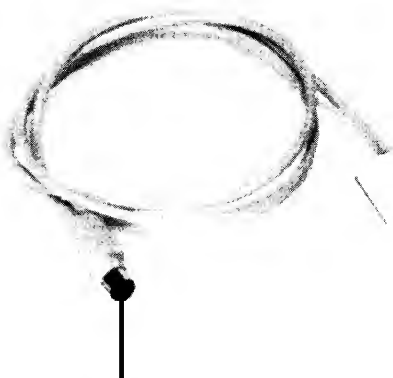
Apple P/N 661-0338

(When you return P/N 661-0338, Apple ships you P/N 661-0763.)

Apple P/N 661-0479

(When you return P/N 661-0479, Apple ships you P/N 661-0763.)

Apple P/N 661-0585



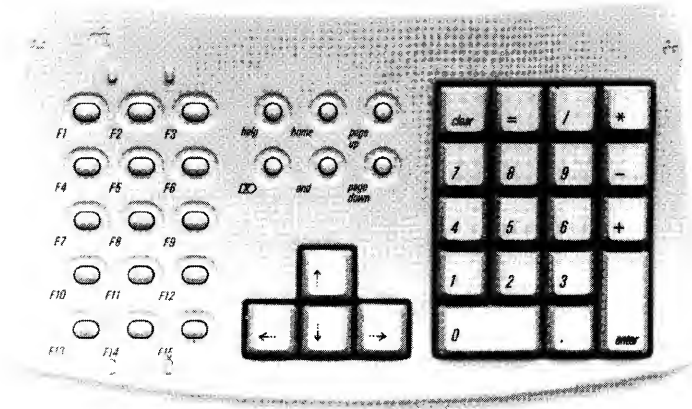
See Note

NOTE: This mouse has a 4-pin connector.

P/N 661-0479 has a low-power  icon on the bottom label; P/N 661-0338 does not. Because P/N 661-0585 has a ferrite EMI filter, use this device only on the Macintosh Portable.

Apple Adjustable Keypad

Apple P/N 661-0762



Apple
Desktop Bus Mouse II

Apple P/N 661-0763



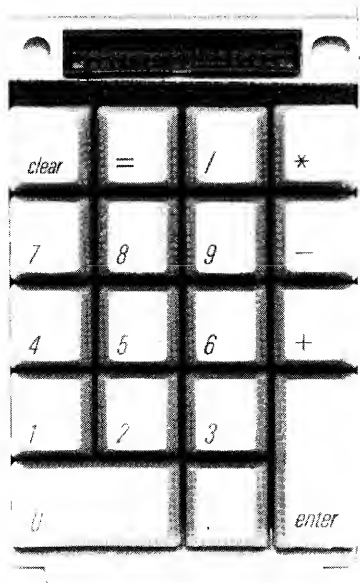
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Macintosh Portable Numeric Keypad

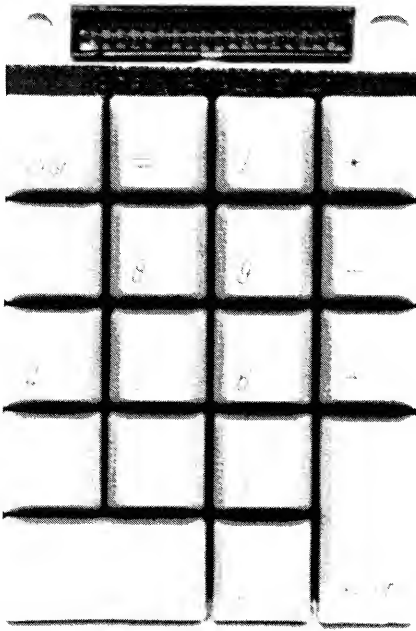
Apple P/N 661-0477
Apple P/N 661-0477 PA/Z



NOTE: The Macintosh Portable numeric keypad comes in two versions: the original version (661-0477) has a steel mounting plate with a black finish; the new version (661-1611) has an aluminum mounting plate with a silver finish. When you replace a numeric keypad, use the version with the same mounting plate as the defective keypad.

Macintosh Portable Lightweight Numeric Keypad

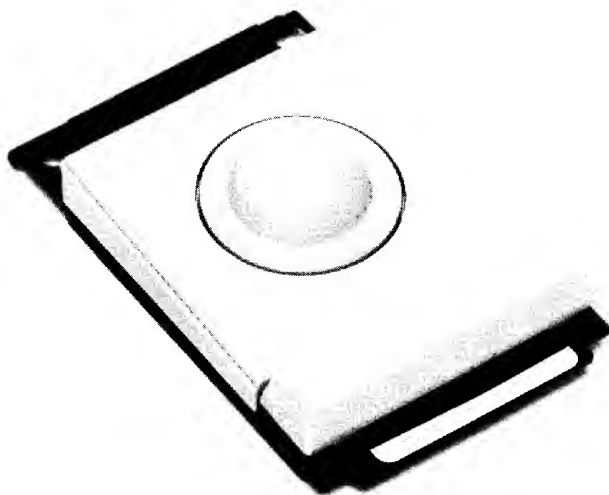
Apple P/N 661-1611



NOTE: The Macintosh Portable numeric keypad comes in two versions: the original version (661-0477) has a steel mounting plate with a black finish; the new version (661-1611) has an aluminum mounting plate with a silver finish. When you replace a numeric keypad, use the version with the same mounting plate as the defective keypad.

Macintosh Portable
Trackball Assembly

Apple P/N 661-0475



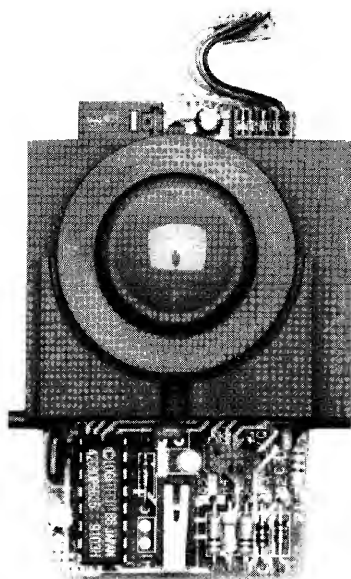
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PowerBook 100
Trackball Assembly

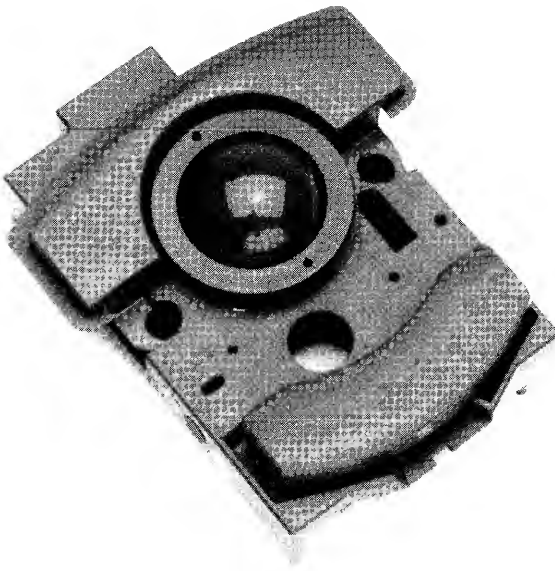
Apple P/N 661-0676



PowerBook 140/145/160/170/180 Trackball Assembly

Apple P/N 661-0710

(When you return P/N 661-0710, Apple ships you P/N 661-0730.)



PowerBook 140/145/145B/160/165/165c/170/
180/180c

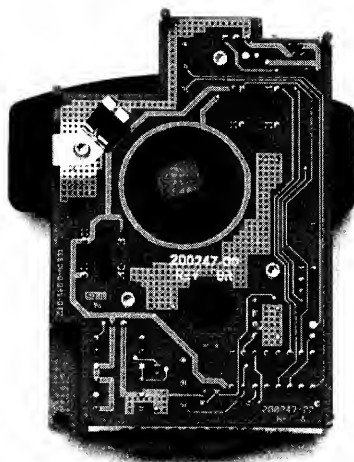
Trackball Assembly

Apple P/N 661-0730

Top



Bottom



PowerBook Duo 210/230/250/270c
Trackball Assembly

Apple P/N 661-1654



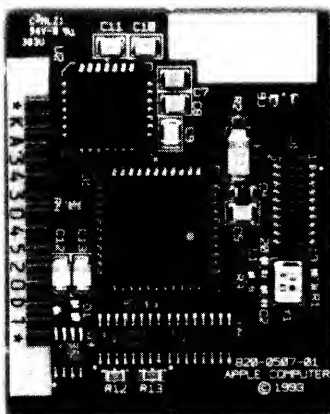
**PowerBook 520/540 Series
TrackPad**

Apple P/N 661-0038

Top



Bottom



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Macintosh TV
Apple Desktop Bus Mouse II

Apple P/N 661-1723



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Miscellaneous

Apple TechStep
TechStep Assembly

Apple P/N 661-0703



NOTE: DO NOT return ROM packs, port pack, or battery with this module.

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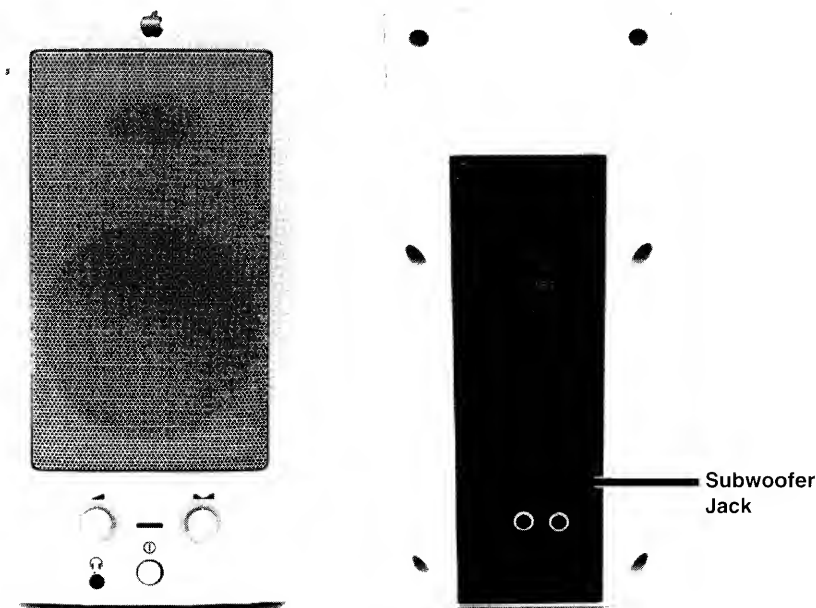
AppleDesign Powered Speakers Main Speaker

Apple P/N 661-1689



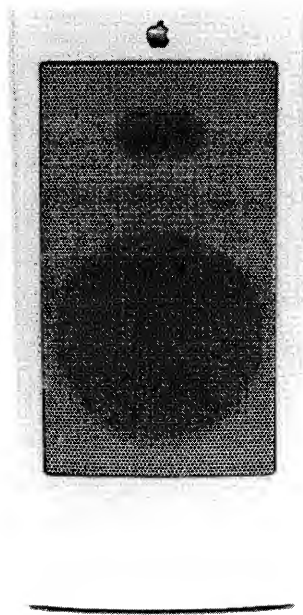
AppleDesign Powered Speakers
Main Speaker with Subwoofer Jack

Apple P/N 661-1737



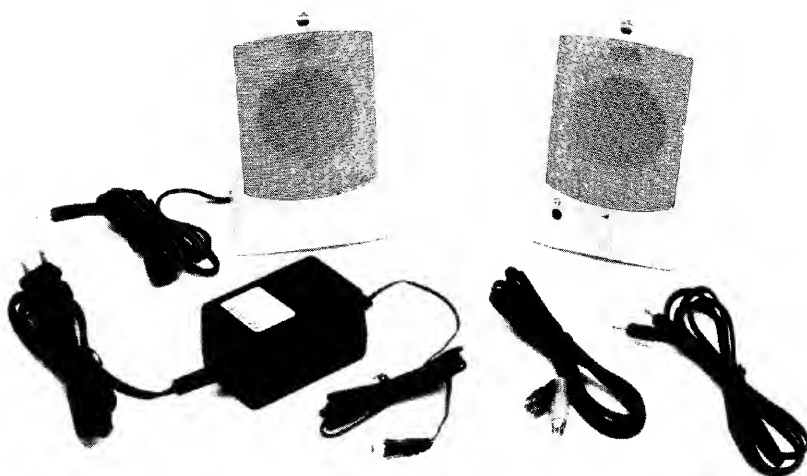
AppleDesign Powered Speakers
Main Speaker

Apple P/N 661-1716



AppleDesign Powered Speakers II Speaker Assembly (Platinum)

Apple P/N 661-0048



Power CD Player

Apple P/N 661-1697, NTSC, Blue
Apple P/N 661-1726, NTSC, Gray
Apple P/N 661-1728, PAL, Blue
Apple P/N 661-1727, PAL, Gray



APPLE REQUIRES SPECIAL PACKAGING:

The Power CD player must be packaged with the foam insert inside the player. Failure to do so could damage the drive during shipment. Failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drive manual in *Service Source*.

Power CD

Base, Battery Pack/SCSI

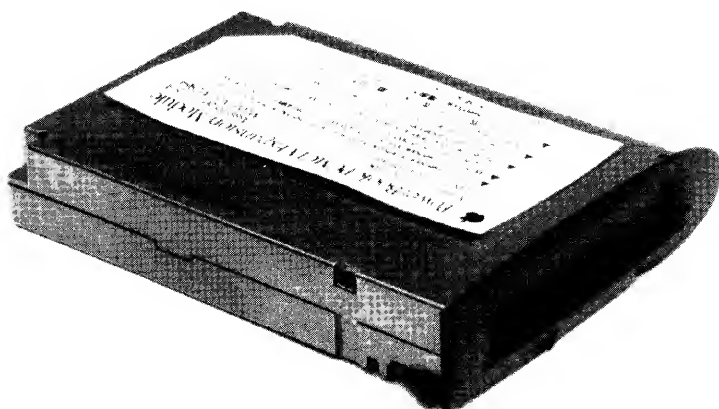
Apple P/N 661-1730, Gray

Apple P/N 661-1729, Blue



**PowerBook 520/540 Series
PCMCIA Expansion Module**

Apple P/N 661-0137



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